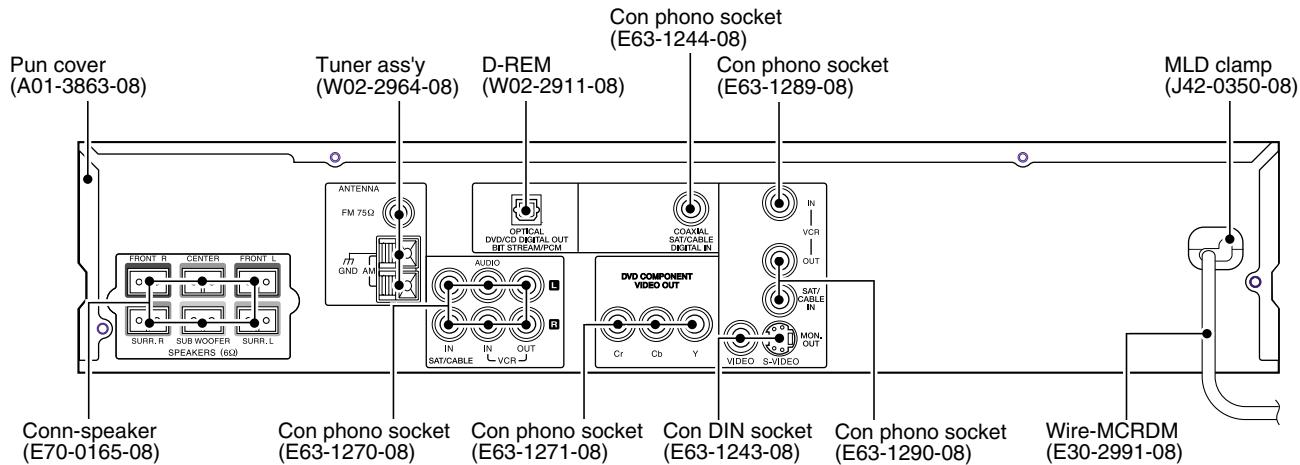
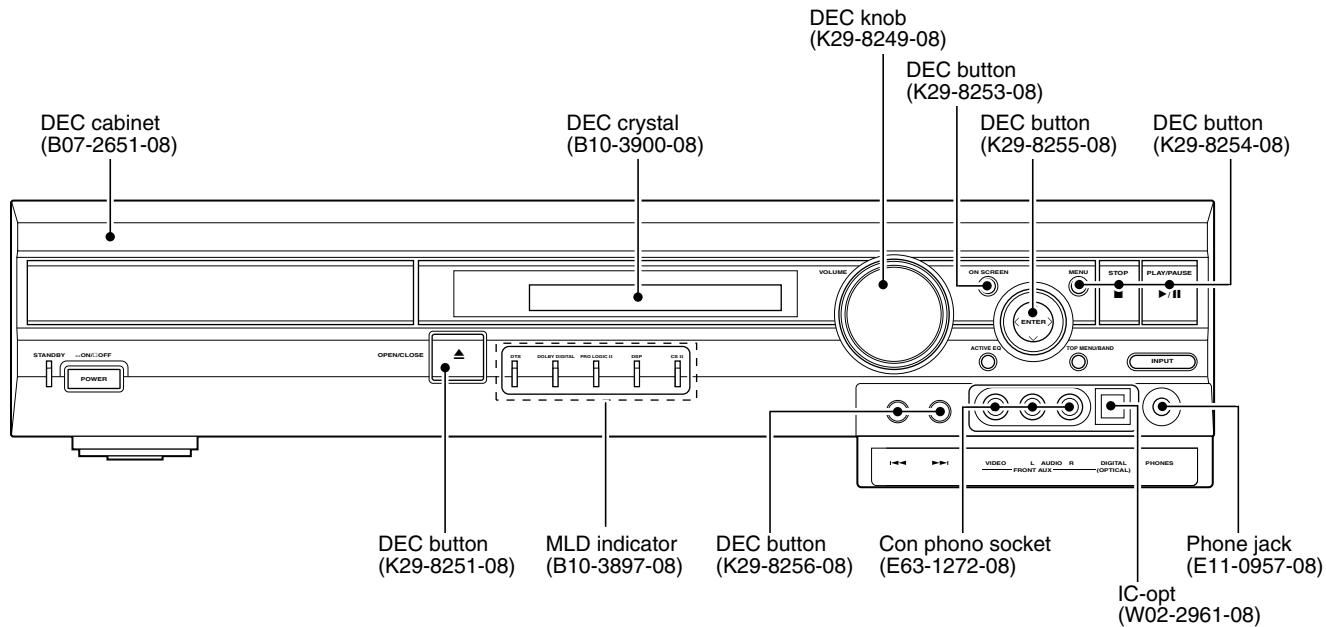


**This manual is available for U.S.A. and Canada markets.**

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

**Caution** : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.

**DANGER : Laser radiation when open and interlock defeated.  
AVOID DIRECT EXPOSURE TO BEAM.**



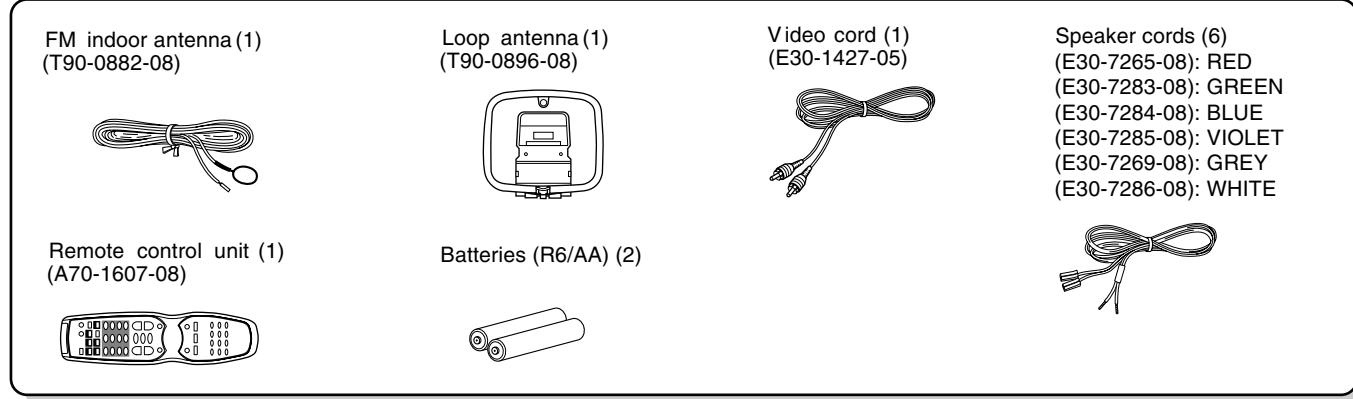
# DVR-605

## CONTENTS / ACCESSORIES / CAUTIONS

### Contents

CONTENTS / ACCESSORIES / CAUTIONS .....	2
DISASSEMBLY FOR REPAIR .....	3
BLOCK DIAGRAM .....	3
CIRCUIT DESCRIPTION .....	4
ADJUSTMENT .....	13
INTERCONNECTION DIAGRAM .....	13
PC BOARD .....	14
SCHEMATIC DIAGRAM .....	22
EXPLODED VIEW .....	35
PARTS LIST .....	36
SPECIFICATIONS .....	Back cover

### Accessories



### Cautions

#### ***Caution on condensation***

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours, and restart the operation after the condensation has dried up.

#### ***Be specially cautious against condensation in a following circumstances:***

When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement  
**Before transporting or moving this unit, carry out the following operations.**

① Remove the disc from the unit.

② Press the **►/II** key.

**NO DISC**

③ Wait a few seconds and turn the unit OFF.

#### ***Operation to reset***

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

Set the POWER switch to ON (set to Standby mode). Then press the **►/II** key, **◀▶** key and **STOP** key in this order.

- Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory.

#### ***Memory backup function***

Stored contents which are cleared in at least a week after power plug is unplugged from power outlet.

##### **Amplifier section**

Last input selection  
Volume control value  
Surround setting  
ACTIVE EQ

##### **Tuner section**

Receiving band  
Frequency  
Preset stations  
Tuning mode setting

##### **DVD section**

Menu setup

##### **Power status**

#### ***WARNING NOTICE:***

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#### ***The marking of products using lasers (Except for some areas)***

**CLASS 1  
LASER PRODUCT**

The marking this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.

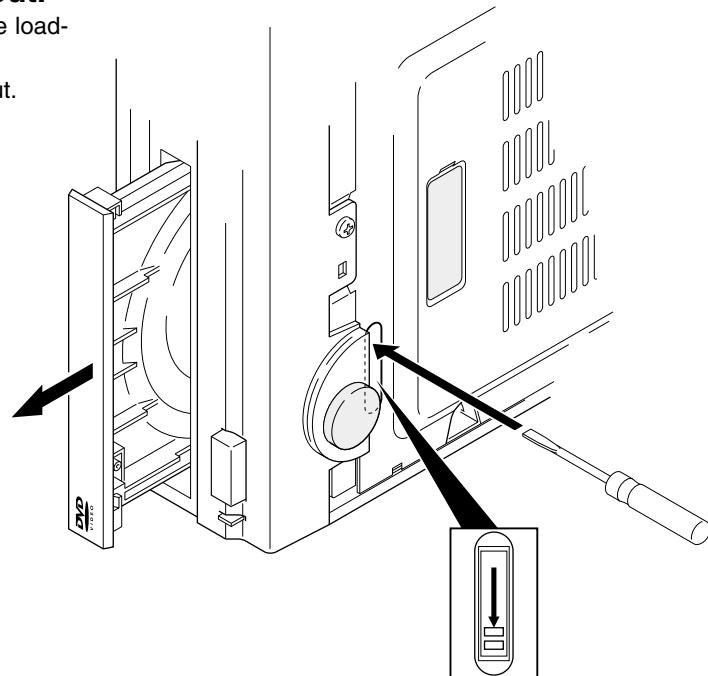
Location: Back panel

## DISASSEMBLY FOR REPAIR / BLOCK DIAGRAM

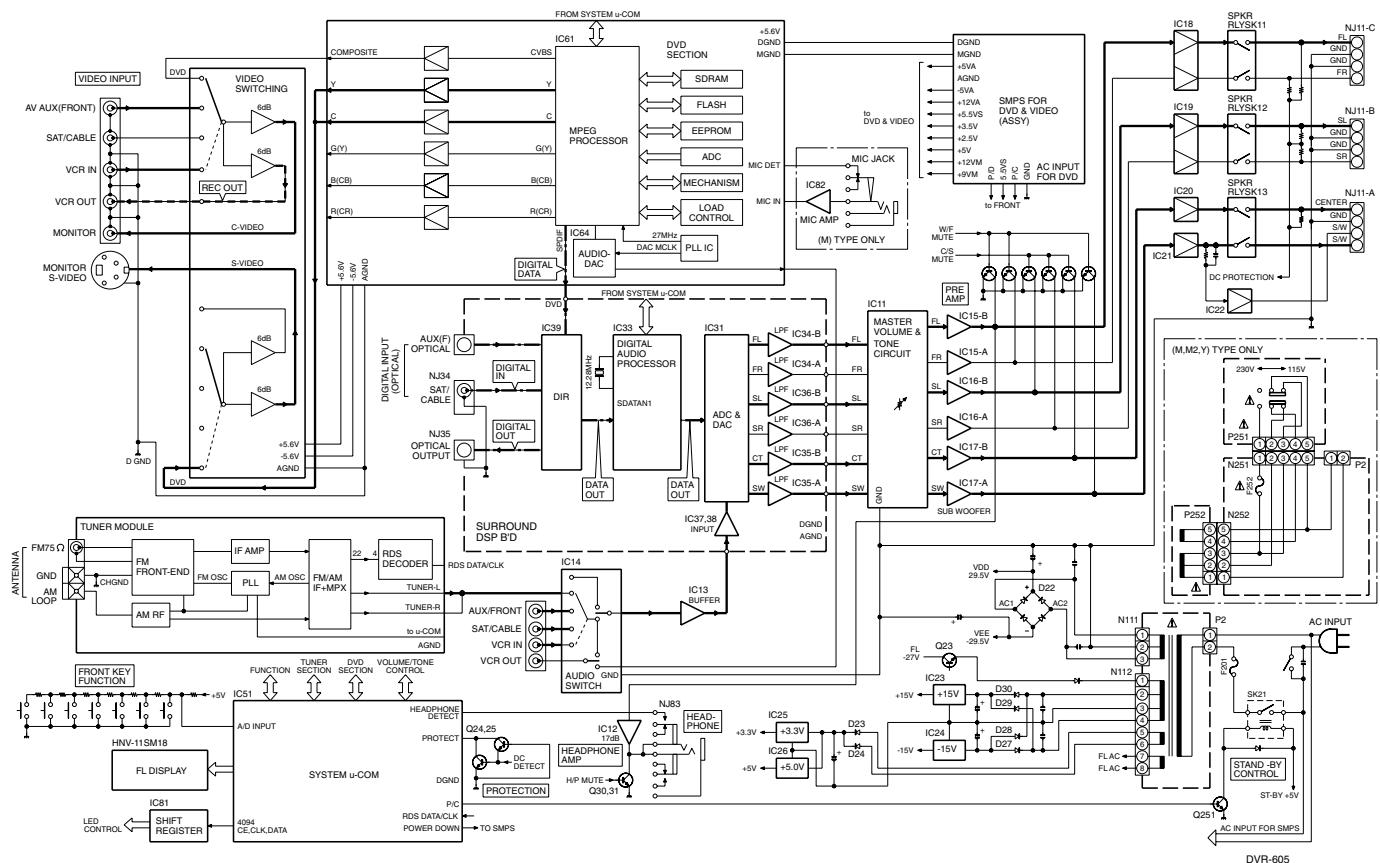
## DISASSEMBLY FOR REPAIR

## How to open the tray if it does not come out.

1. Insert a flat driver in the drawing through the hole on the loading chassis bottom and pull the lever down.
2. Pull out the tray frontward by hand when it comes just out.



## BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

## 1. Pin Description of MPEG Processor IC (DVD Part IC61)

Pin No.	Pin Name	I/O	Pin Description
PIOs and communication			
1	PIO2(5) RGB SEL(BLANK)	I/O	RGB sel (blank). unused
2	PIO2(6) VIDEO MUTE	I/O	Video mute control.
3	PIO2(7) 16: 9 INDICATOR	I/O	16 : 9 indicator (unused).
6	PIO3(0) SCART H (TV/AUX)	I/O	Unused.
7	PIO3(1)	I/O	Unused.
8	PIO3(2)	O	CSB
*	9	O	SDIN
*	10	I/O	Unused.
*	11	O	SCLK
12	PIO3(6)	I/O	Unused.
13	PIO3(7) DVD RESET	I/O	Power- on reset of front-end module.
Front-end			
16	B DATA	I	I2S Data
17	B BCLK	I	I2S Bit clock
18	B FLAG	I	I2S Error flag
19	B SYNC	I/O	I2S Sector / ABS time
Reserved			
20	B WCLK	I/O	Unused.
21	B V4	I/O	Unused.
22	NRSS OUT	I/O	Unused.
23	VDD RGB	-	Supply voltage for RGB (+3.3VA).
24	VSS RGB	-	GND
Video DAC			
25,26,27	B/G/R (OUT)	O	B/G/R signal outputs.
28	V REF RG	I	Reference voltage input for DAC RGB.
29	I REF RG	I	Reference current input for DAC RGB.
30	VDD YCC	-	Supply voltage for YCC (+3.3VA).
31	VSS YCC	-	GND
32~34	Y/C/CV (OUT)	O	Y/C/CV signal outputs.
35	V REF YCC	I	Reference voltage input for DAC YCC.
36	I REF YCC	I	Reference current input for DAC YCC.
PIOs and communication			
39	PIO4(0)HP MUTE	-	Unused.
40	PIO4(1)	-	Unused.
41	PIO4(2)	O	DAC system clock output.
42	PIO4(3) DAC RESET	O	DAC reset output.
43	PIO4(4) PLL CS	O	DAC mute control.
44	PIO4(5) DAC CLOCK	O	DAC clock output
45	PIO4(6) DAC DATA	O	DAC data output.
46	PIO4(7) DAC CS	O	DAC chip select.
Audio DAC			
48	VDD PCM	-	Supply voltage for PCM (+3V3).
49	VSS PCM	-	Ground for PCM.
51	DAC SCLK (BCK)	O	DAC over sampling clock.
52	DAC PCMOUT0 (DATA)	O	DAC PCM data out 0.
53	DAC PCMOUT1	O	DAC PCM out 1 (unused).
54	DAC PCMOUT2	O	DAC PCM out 2 (unused).
55	DAC PCMCLK	O	DAC PCM clock.
56	DAC LRCLK	O	DAC PCM Left/Right clock.
57	SPDIF OUT	O	Audio digital data output.
Shared memory interface			
58~63	SMI ADR(4~9)	O	SDRAM address bus.
66~69	SMI ADR(3~0)	O	SDRAM address bus.

## CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
70~73	SMI ADR(10~13)	O	SDRAM address bus.
74	SMI CS(0)	O	Chip select bank 0.
75	SMI CS(1)	-	Unused.
76	SMI RAS	O	SDRAM RAS
77	SMI CAS	O	SDRAM CAS
78	SMI WE	O	SDRAM write enable.
79	SMI DQML	O	DQ MASK enable low.
80	SMI DQMU	O	DQ MASK enable up.
82	SMI CLKIN	I	SDRAM clock input.
84~93	SMI DATA(0~9)	I/O	SDRAM data bus.
95	SMI CLKOUT	O	SDRAM clock out.
97~102	SMI DATA(10~15)	I/O	SDRAM data bus.
Reserved			
*	103	ADC SCLK	I/O ADC digital audio port clock.
*	104	ADC LRCLK	I/O ADC sample rate clock.
*	105	ADC DATA	I ADC digital audio data input.
*	106	ADC PCMCLK	O Crystal input or master clock input.
JTAG			
109	TRST	I	Test reset from emulator module.
110	TMS	I	Test mode select.
111	TDO	O	Test data out to emulator module.
112	TDI	I	Test data input from emulator module.
113	TCK	I	Test clock input from emulator module.
Timers			
114	PWM2	I/O	Unused.
115	PWM1	I/O	ROM boot option port (voltage low = emulator booting).
116	PWM0	I/O	Unused.
EMI Interface			
117	CPU OE	I/O	Flash ROM output enable
118	CPU PRO CLK	O	SDRAM clock (unused).
Clock & Reset			
120	PIX CLK	I	27MHz main clock input.
122	VDD PLL	-	Supply voltage for PLL (+3V3).
123	VSS PLL	-	Ground for PLL.
124	RESET	I	Chip reset input.
Interrupt			
125	IRQ(2)	I	Interrupt request 2 from front-end module.
126	IRQ(1)	I	Unused.
127	IRQ(0)	I	Unused.
EMI Interface			
128	CPU BE(0)	O	BYTE 0 Enable
129	CPU BE(1)	O	BYTE 1 Enable
130	CPU RW	O	Unused.
131	CPU WAIT	I	Wait state (connected to ground).
132	CPU CE(3)	O	Flash ROM chip select.
133	CPU CE(2)	O	Flash ROM down-load JIG module select.
134	CPU CE(1)	O	Unused
135	CPU CE(0)	O	Unused.
138	CPU RAS1	I/O	Unused.
139	CPU CAS0	O	Unused.
140	CPU CAS1	O	Unused.
141~148	CPU DATA(0~7)	I/O	Flash ROM data input/output (0~7).
151~158	CPU DATA(8~15)	I/O	Flash ROM data input/output (8~15).
161~170	CPU ADR(1~10)	O	Flash ROM address (1~10).
173~183	CPU ADR(11~21)	O	Flash ROM address (11~21).

## CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
PIOs and communication			
186	PIO0(0) T STROBE	I/O	UART0 data
187	PIO0(1) MOD SW	I/O	ATAPI RD
188	PIO0(2)	O	Unused.
189	PIO0(3)	O	Unused.
190	PIO0(4)	O	Unused.
191	PIO0(5)	I	Unused.
192	PIO0(6) SLIDER SENSOR OPEN/CLOSE (DRAWER POSITION)	I/O	Detection port of slider sensor for DVD mechanism.
193	PIO0(7) SLIDER IN (DRAWER CCW/CTRL)	I/O	Control port of slider (IN) for DVD mechanism.
194	PIO1(0) SDA	I/O	SSC0 data (MTSR out / MRST in)
195	PIO1(1) SCL	I/O	SSC0 clock
196	PIO1(2) SLIDER OUT (DRAWER CW CTRL)	I/O	Control port of slider (OUT) for DVD mechanism.
197	PIO1(3) TXD(JIG)	I/O	UART2 TXD
200	PIO1(4) RXD(JIG)	I/O	UART2 RXD
201	PIO1(5) FRONT TXDI	I/O	UART1 TXD
202	TRIGGER IN	I/O	Trigger input from JIG.
203	TRIGGER OUT	I/O	Trigger output from JIG.
204	PIO2(0) H/P	-	Unused.
205	PIO2(1) FRONT RXD	I/O	UART1 RXD
206	PIO2(2)	I	Unused.
207	PIO2(3)	-	Unused.
208	PIO2(4) AUDIO MUTE	O	Audio mute control.
Power supply			
4,47,81,107 136,159,184	VDD3 3	-	3.3V Power supply.
14,37,64,94 119,149,171 198	VDD2 5	-	2.5V Power supply.
5,15,38,50,65 83,96,108,121 137,150,160 172,185,199	VSS	-	GND

\* M Type only

## 2. Pin Description of System Microcomputer : CXP82860(Microprocessor IC51)

Pin No.	Pin Name	I/O	Description
1	GRID2	O	FIP Grid output.
2	GRID1	O	FIP Grid output.
3	NC	-	Connected to VDD.
4	POWER DOWN	I	Power down check.
5	RDS CLK	I	RDS clock input.
6	DVD RX	I	DVD UART interface (RX).
7	RDS OPTION	-	Unused.
8	RMC	I	Remote controller signal input.
9	RDS DATA	I	RDS data input.
10	SM7346 CLK	O	Volume IC (IC11) clock output.
11	SM7346 DATA	O	Volume IC (IC11) data output.
12	ENCODER UP	I	Encoder (1) signal input.
13	ENCODER DW	I	Encoder (2) signal input.
14	DVD TX	O	DVD UARTinterface (TX).
15	DVD RST	O	DVD reset signal output.

## CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
16	DSP A. BOOST	O	DSP auto boot.
17	H/P CHK	I	Detection pin of headphones jack.
18	CS8415A-CE	O	DIR IC (IC39) chip enable.
19	EMPHASIS	O	CS4228 DAC IC emphasis ON/OFF
20	TUNED	I	Tuned signal input for tuner.
21	DSP INTREQ	O	DSP INT request.
22	4094CE	O	4049 (IC81) chip enable.
23	CS49326 CE	O	CS49326 DSP IC (IC33) chip enable.
24	CS4228 CE	O	CS4228 DAC IC (IC31) chip enable.
25	DSP CLK	O	CS49326 DSP IC (IC33) clock output.
26	CS49326 DATA IN	I	CS49326 DSP IC (IC33) data input.
27	DSP DA OUT	O	CS49326 DSP IC (IC33) data output.
28	VREF	I	A/D reference voltage input.
29	PROTECT	I	AMP protection input.
30	KEY IN	I	A/D key input.
31	EEPROM DATA	I/O	EEPROM (IC52) data output.
32	KEY2 IN	I	A/D key input.
33	8415 DA IN	I	CS8415 DIR IC (IC39) data input.
34	DVD OPTION	I	Setting pin for the destination.
35	PLL DATA IN	I	PLL data input.
36	STEP OPTION	I	Setting pin for tuner destination.
37	VSS(G)	I	Analog ground.
38	RST	I	Reset signal input.
39	EXTAL	I	Crystal resonator (10MHz) connection.
40	XTAL	O	Crystal resonator (10MHz) connection.
41	GND	-	Digital ground.
42	NC	O	Unused.
43	GND	-	GND
44	VDD	I	Digital ground.
45	VFDP	I	Power supply for VFDP.
46	STANDBY	O	Control pin for power relay on/off.
47	SPK RELAY	O	Control pin for speaker relay on/off.
48	SUB ON/OFF	O	Gain control for sub woofer.
49	CS8415 RST	O	CS8415 (IC39) reset signal output.
50	PLL CE	O	PLL chip enable.
51	PLL CLK	O	PLL clock output.
52	PLL D OUT	O	PLL data output.
53	A CLK	O	Common clock (LC7821,BU4094) output.
54	A DATA	O	Common data (LC7821,BU4094) output.
55	EEPROM CLK	O	EEPROM (IC52) clock output.
56~59	VIDEO (SW1~SW4)	O	Control pin for video.
60	4228 RST	O	CS4228 (IC31) reset signal output.
61	LC7821 CE	O	LC7821(tuner pack) chip enable.
62	SM7346 CE	O	Volume IC (Main IC11) chip enable.
63	T MUTE	O	Tuner mute control.
64	S MUTE	O	Mute control pin for surround signal
65	C MUTE	O	Mute control pin for center signal.
66	F MUTE	O	Mute control pin for front signal.
67	W MUTE	O	Mute control pin for sub woofer signal.
68	CS49326 RST	O	CS49326 DSP IC (IC5) reset signal output.
69~71	DSP (A15~A17)	O	DSP ROM address (SEL 1~3).
72~88	SEG (1~17)	O	FIP segment output.
89	VDD	-	Digital power supply.
90,91	SEG18,19	O	FIP segment output.
92~100	GRID (11~3)	O	FIP Grid output.

# CIRCUIT DESCRIPTION

### 3. Pin Description of IC's

#### 3-1 64 Bit SDRAM : HY57V641620HGT (DVD Part IC63)

Pin No.	Pin Name	I/O	Description
38	CLK	I	The system clock input. all other inputs are registered to the SDRAM on the rising edge of CLK.
37	CKE	-	Controls internal clock signal and when deactivated, the SDRAM will be one of the states among power down, suspend or self refresh.
19	CS	-	Enables or disables all inputs except CLK, CKE, and DQM.
20,21	BA0,BA1	-	Selects bank to be activated during RAS activity. Selects bank to be read/written during CAS activity.
22~26 29~35	A0~A11	-	Row address : RA0~RA11, Column address : CA0~CA7 Auto-precharge flag : A10
16,17,18	WE,CAS,RAS	-	WE, CAS and RAS define the operation.
15,39	LDQM,UDQM	I/O	Controls output buffers in read mode and masks input data in write mode.
2,4,5,7,8,10 11,13,42,44 45,47,48,50 51,53	DQ0~DQ15	I/O	Multiplexed data input/output pin.
1,3,9,14,27 43,49	VCC/VCC Q	-	Power supply for internal circuits and input buffers.
6,12,28,41, 46,52,54	VSS/VSS Q	-	Ground terminal.
36,40	NC	-	Unused.

#### 3-2 24-bit, 192kHz Stereo DAC : WM8728 (DVD Part IC64)

Pin No.	Pin Name	I/O	Description
1	LRCIN	I	DAC sample rate clock input : PCM input mode Right channel DSD bitstream input : DSD input mode
2	DIN	I	Serial audio data input : PCM input mode Left channel DSD bitstream input : DSD input mode
3	BCKIN	I	Audio data bit clock input.
4	MCLK	I	Master clock input.
5	ZERO	O	Infinite zero detect flag.
6	DGND	-	Digital ground supply.
7	DVDD	-	Digital positive supply.
8	VOUTR	O	Right channel DAC output.
9	AGND	-	Analog ground supply.
10	AVDD	-	Analog positive supply.
11	VOUTL	O	Left channel DAC output.
12	VMID	O	Mid rail decoupling point.
13	VREFN	-	DAC negative reference.
14	VREFP	-	DAC positive reference.
15	CSBIWL	I	Software mode : 3-wire serial control chip select Hardware mode : Input word length
16	MODE	I	Control mode selection.
17	MUTEB	-	Mute control. "L" = Mute on, "H" = Mute off
18	SDIDEM	-	Software mode : 3 or 2-wire serial control data input Hardware mode : De-Emphasis select
19	SCKDSD	I	Software mode : 3 or 2-wire serial control clock input Hardware mode : DSD bitstream operation select
20	LAT12S	I	Software mode : 3-wire serial control load input Hardware mode : Input data format selection

# DVR-605

## CIRCUIT DESCRIPTION

### 3-3 Flash Memory : SST39VF800A904 (DVD Part IC66)

Pin No.	Pin Name	I/O	Description
1~8, 16~25,48	A0~A18	I	Address Inputs
29,31,33,35,38,40 42,44	DQ0~DQ7	I/O	Data Input/Outputs, Command Inputs
30,32,34,36,39,41,43	DQ8~DQ14	I/O	Data Input/Outputs
45	DQ15	I/O	Data Input/Outputs or Address input
26	CE	-	Chip Enable
28	QE	-	Output Enable
11	WE	-	Write Enable
12	RP	-	Reset/Block Temporary Unprotect
15	RY/BY	O	Ready/Busy/Output(Unused)
47	BYTE	-	Byte/Word Organization
37	VCC	-	Supply Voltage
27,46	VSS	-	Ground

### 3-4 HEX Inverter (Single Stage) : M74HCU04 (DVD Part IC67)

Pin No.	Pin Name	I/O	Pin Description
1,3,5,9, 11,13	A0 to A5	I	Data Inputs
2,4,6,8, 10,12	Q0 to Q5	O	Data Outputs
7	GND	-	Ground
14	VCC	-	Positive Supply Voltage

Truth Table

A	Q
L	H
H	L

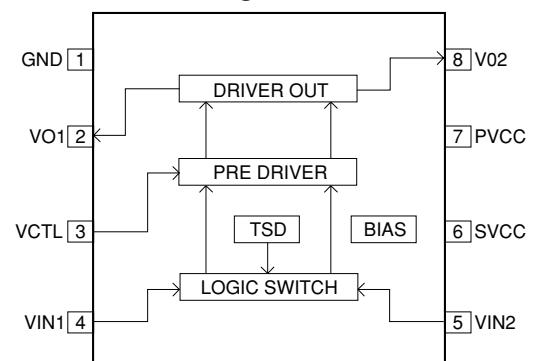
### 3-5 Video Driver : MM1540AF (DVD Part IC68)

Pin No.	Pin Name	I/O	Description
1,28	VCC1,2	-	VCC
2	VIN	I	Unused
3	YC MIX	-	YC MIX select (GND)
4	CIN	I	Croma input
5	CLP	-	Clamp select (Connected to VCC)
6,9	YIN (1,2)	I	Video input (Composite or Y)
7	MUTE 1	O	Mute select (GND)
8	MUTE 2	O	Mute select
10	GND	-	GND
11,13	CbIN, CrIN	I	Component input
12	Dual/Single	-	Power select (+5V)
14,15,19, 21,22,24	VEE1, VEE2	-	VEE (-5V)
16,18,20, 23,25,27	CrOUT, CbOUT, YOUT2,YOUT1, COUT,VOUT	O	Video output
17,26	PS2,PS1	-	Power save (Connected to GND)

### 3-6 DC Motor Driver : FAN8082(DVD Part IC69)

Pin No.	Pin Name	I/O	Pin Description
1	GND	-	Ground
2	VO1	O	Output 1
3	VCTL	I	Motor speed control
4	VIN1	I	Input 1
5	VIN2	I	Input 2
6	SVCC	-	Supply voltage (Signal)
7	PVCC	-	Supply voltage (Power)
8	VO2	O	Output 2

Internal Block Diagram



## CIRCUIT DESCRIPTION

### 3-7 Stereo Audio ADC : VM8739 (DVD Part IC70) M Type only

Pin No.	Pin Name	I/O	Pin Description
1	SDIN	I	3-wire MPU data input/2-wire MPU data input.
2	SCLK	I	3-wire MPU clock input/2-wire MPU clock input.
3	XTI/MCLK	I	Crystal input or master clock input (MCLK).
4	XTO	O	Crystal output.
5	DCVDD	-	Digital core VDD.
6	DGND	-	Digital GND.
7	DBVDD	-	Digital buffers VDD.
8	BCLK	I/O	Digital audio port clock.
9,10	DNC	-	Unused.
11	ADCDAT	O	ADC digital audio data output.
12	ADCLRC	I/O	ADC sample rate clock.
13	NC	-	Unused.
14	AVDD	-	Analog VDD.
15	AGND	-	Analog GND.
16	VMID	O	Mid-rail reference decoupling point.
17	R IN	I	Right channel line input (AC coupled).
18	L IN	I	Left channel line input (AC coupled).
19	MODE	I	Control interface selection, pull up (on power up only).
20	CSB	I	3-wire MPU chip select/2-wire MPU interface address selection.

### 3-8 Volume Control IC: M62446AFP (Main B' D IC11)

Pin No.	Pin Name	I/O	Pin Description
1~4	OUT(4~1)	O	Unused.
5	AVDD	-	Power supply (+7.0V) for analog.
6	SWin	I	Volume input for SW channel.
7,10,12,14	GND(S,C,R,L)	-	Analog ground.
8	SRin	I	Volume input for SR channel.
9	SLin	I	Volume input for SL channel.
11	Cin	I	Volume input for center channel.
13	Rin	I	Tone input for FR channel.
15	Lin	I	Tone input for FL channel.
16,17	BYPASS(R,L)	I	Input pin of the volume input selector when bypass.
18,25	LTRE/RTRE	-	Frequency characteristic setting pin in the tone control (Treble).
19,24,20, 23,21,22	LBASS3/RBASS3 LBASS2/RBASS2 LBASS1/RBASS1	-	Frequency characteristic setting pin in the tone control (Bass).
26,28	CR2/CL2	O	Tone output.
27,29	CR1/CL1	I	Input pin of the main volume.
30	AVSS	-	Power supply (-7.0V) for analog.
31	L OUT	O	Output pin of the main volume.
32	R OUT	O	Output pin of the main volume.
33~36	C/SL/SR/SW(OUT)	O	Output pin of the main volume.
37	AGND	-	Analog ground.
38	DGND	-	Digital ground.
39	LATCH	I	Latch input.
40	DATA	I	Input pin of the serial data.
41	CLK	I	Clock input.
42	DVDD	-	Power supply (+5.0V) for digital.

## CIRCUIT DESCRIPTION

### 3-9 Power Amplifier : LM4766 (Main B' D IC18)

Pin No.	Pin Name	Pin Description
1	FLCH A	Audio FL channel output.
2	FRCH VCC	Power supply (+B) for FR channel.
3	FRCH OUT	Audio FR channel output.
4	VEE	Power supply (-B)
5	FRCH GND	FRch GND
6	FRCH MUTE	Mute control pin of FR channel.
7	FRCH NF	Feed back of FR channel.
8	FRCH IN	Audio FR channel input.
9	NC	Unused.
10	FLCH GND	FLch GND
11	FLCH MUTE	Mute control pin of FL channel.
12	FLCH NF	Feed back of FL channel.
13	FLCH IN	Audio FL channel input.
14	NC	Unused.
15	FLCH VCC	Power supply (+B) for FL channel.

### 3-10 ADC & DAC : CS4228 (DSP B' D IC31)

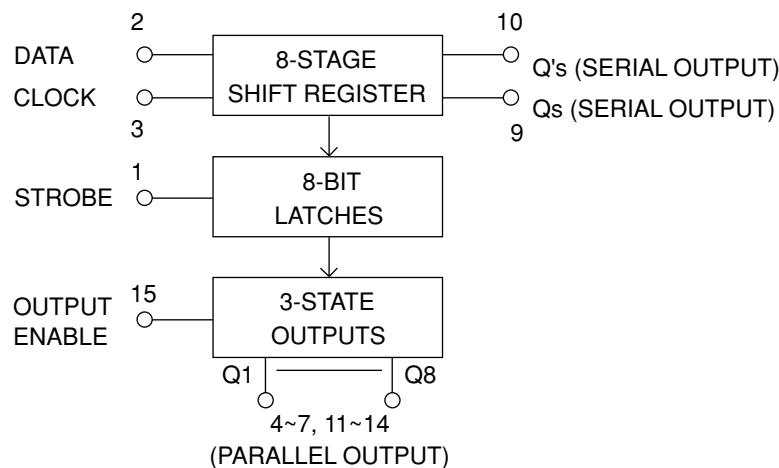
Pin No.	Pin Name	I/O	Pin Description
1~3	SDIN(3~1)	I	Serial data (3~1) input.
4	SDOUT	O	Serial data output.
5	SCLK	I/O	Audio output bit clock.
6	LRCLK	I/O	Audio output sample rate clock.
7	DGND	-	Digital ground.
8,9	VD,VL	-	+3.3V digital power supplies.
10	MCLK	I/O	Audio master clock.
11	SCL/CCLK	I	Serial control interface clock.
12	SDA/CDIN	I	Serial control data input.
13	AD0/CS	I	Address bit / Control port chip select
14	RST	I	Master reset input.
15	MUTEC	-	Unused.
16	AINR+	I	Analog signal input (+) connection for the right channel.
17	AINR-	I	Analog signal input (-) connection for the right channel.
18	FILT	-	PLL loop filter pin.
19	AINL-	I	Analog signal input (-) connection for the left channel.
20	AINL+	I	Analog signal input (+) connection for the left channel.
21	VA	-	+5.0V analog power supply.
22	AGND	-	Analog ground for clock generator PLL.
23~28	AOUT(1~6)	O	The analog outputs from the D/A converters.

# CIRCUIT DESCRIPTION

## 3-11 Digital Audio Decoder : CS493263 (DSP B' D IC33)

Pin No.	Pin Name	I/O	Pin Description
1,12,23	VDD(1~3)	-	Digital positive supplies.
2,13,24	VSS(1~3)	-	Digital ground.
3	XMT958	0	SPDIF transmitter output (unused).
4	WR,DS	I/O	Host Write Strobe, Host Data Strobe, External Memory Write Enable or General Purpose Input
5	RD,RW	I/O	Host Parallel Output Enable, Host parallel R/W, External Memory Output Enable, General Purpose Input
6	A1, SCDIN	1	Host address bit one or SPI serial control data input.
7	A0, SCCLK	I	Host parallel address bit zero or serial control pin clock.
8~11 14~17	DATA(7~0)	I/O	Data bus (7~0).
18	CS	I	Chip select input.
19	SCDI0,SCDOUT	I/O	Serial control data input and output.
20	INTREQ ABOOT	I/O	Control pin interrupt request, automatic boot enable.
21	EXTMEM	I/O	External memory chip select input/output.
22	SDATAN	I	PCM audio data input.
25	SCLKN	I/O	PCM audio input bit clock.
26	SLRCLKN	I/O	PCM audio input sample rate clock.
27	CMPDAT	I	PCM audio data input.
28	CMPCLK	I/O	PCM audio input bit clock.
29	CMPREQ	I/O	PCM audio input sample rate clock.
30	CLKIN	I	Master clock input.
31	CLKSEL	I	DSP clock select.
32	FLT2	-	Phase locked loop filter.
33	FLT1	-	Phase locked loop filter.
34	VDDA	-	Analog positive power supply for clock generator.
35	VSSA	-	Analog ground for clock generator PLL.
36	RESET	I	Master reset input.
37	DD	I/O	This pin should be pulled up with an external 4.7kΩresistor.
38	DC	I	This pin should be pulled up with an external 4.7kΩresistor.
39	AUDAT2	O	Digital audio output 2.
40	AUDAT1	O	Digital audio output 1.
41	AUDAT0	O	Digital audio output 0.
42	LRCLK	I/O	Audio output sample rate clock.
43	SCLK	I/O	Audio output bit clock.
44	MCLK	I/O	Audio master clock.

## 4. Block Diagram of Shift Register : BU4094 (Front IC81)



# DVR-605

## ADJUSTMENT / INTERCONNECTION DIAGRAM

### ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	ALIGNMENT POINT	ALIGNMENT FOR	FIG.
1	Progressive Y LEVEL	100% COLOR BAR DISC	Connect the oscilloscope to Y output(NJ13) with 75-ohms resistor. ※ Output Mode: Progressive	VR11	Y-signal= 1000mV±100mV	FIG.1

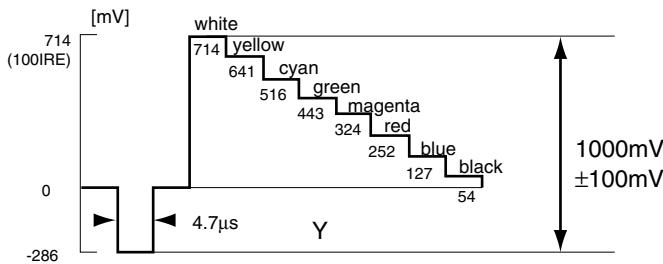
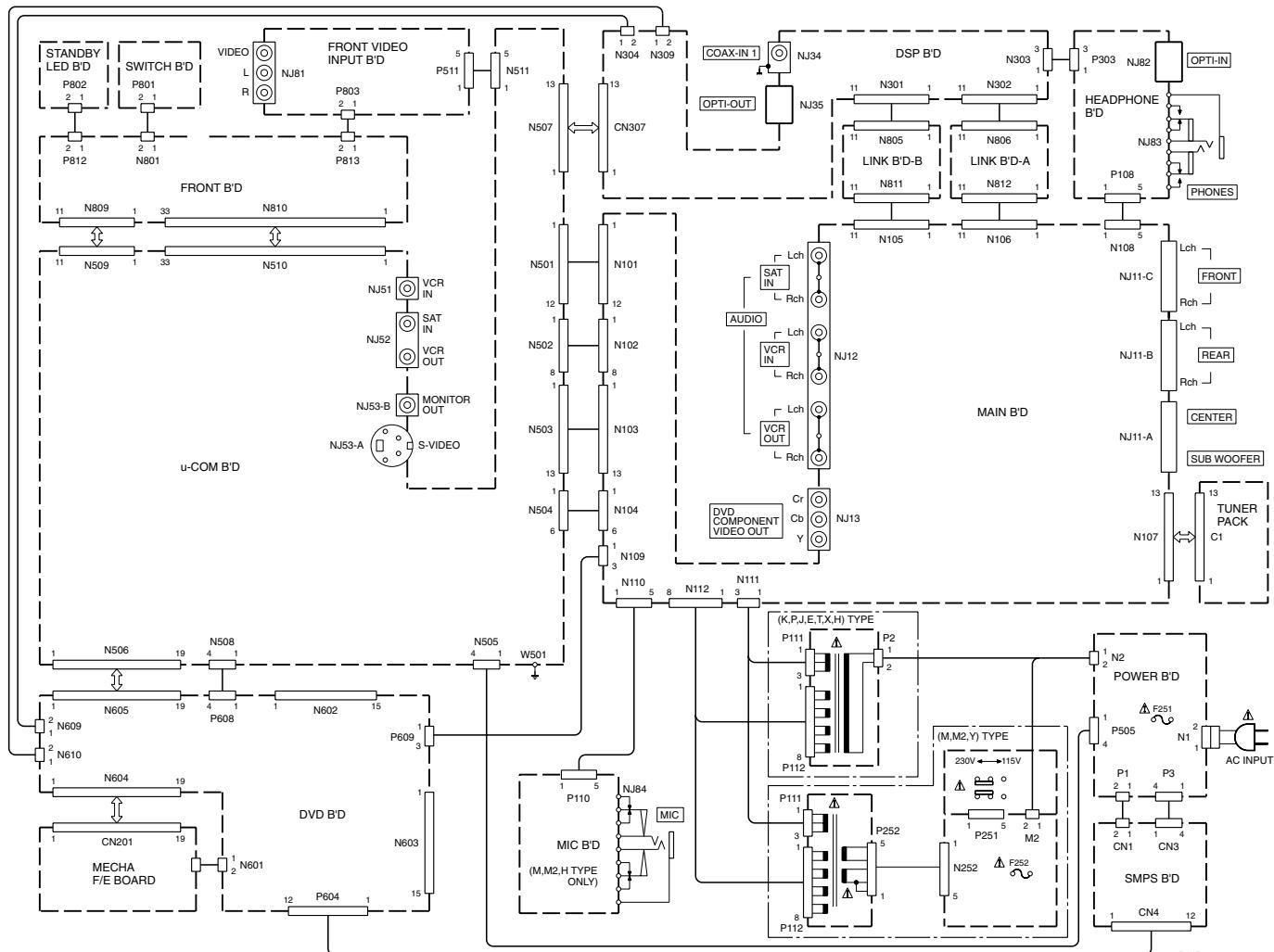


Fig. 1

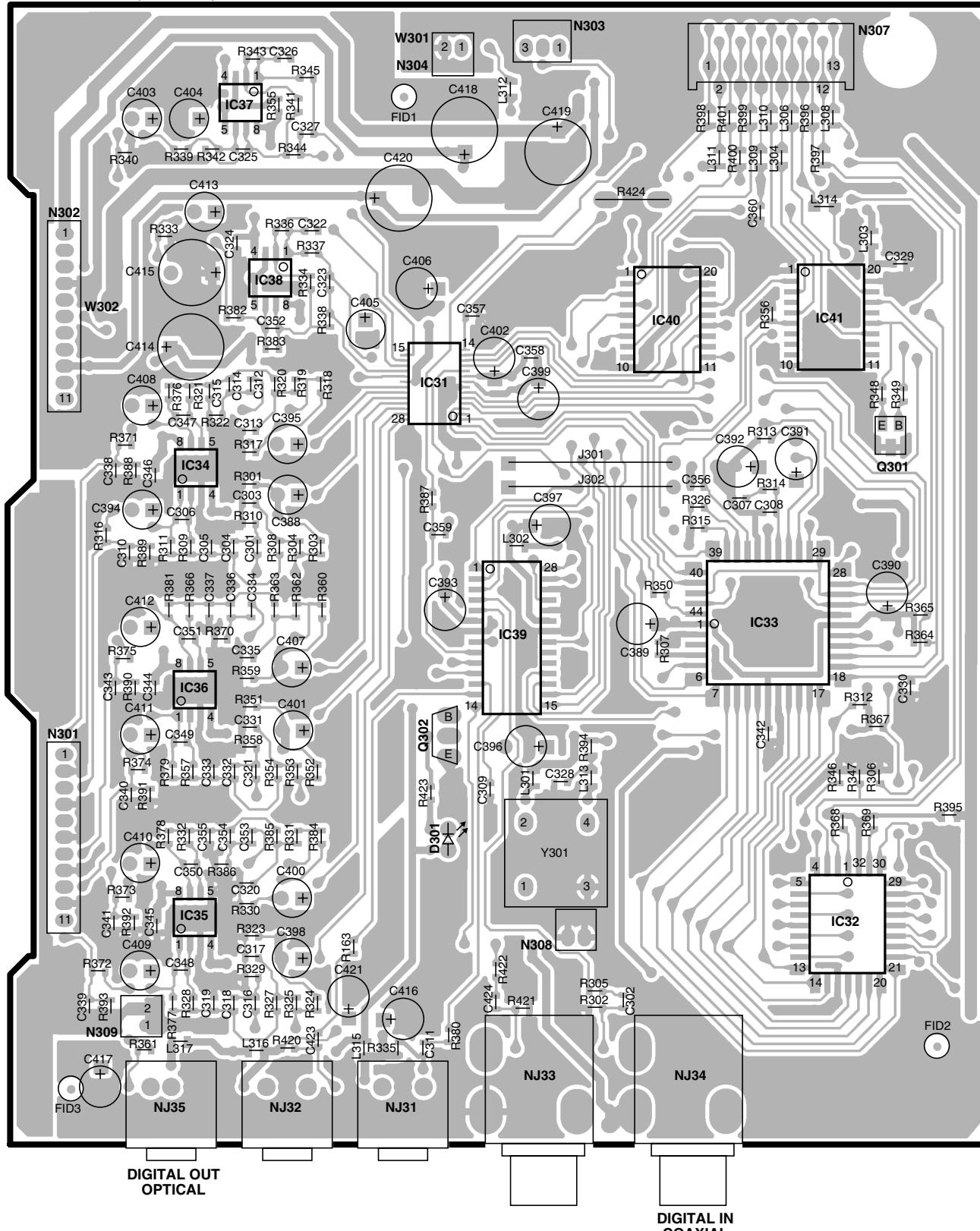
### INTERCONNECTION DIAGRAM



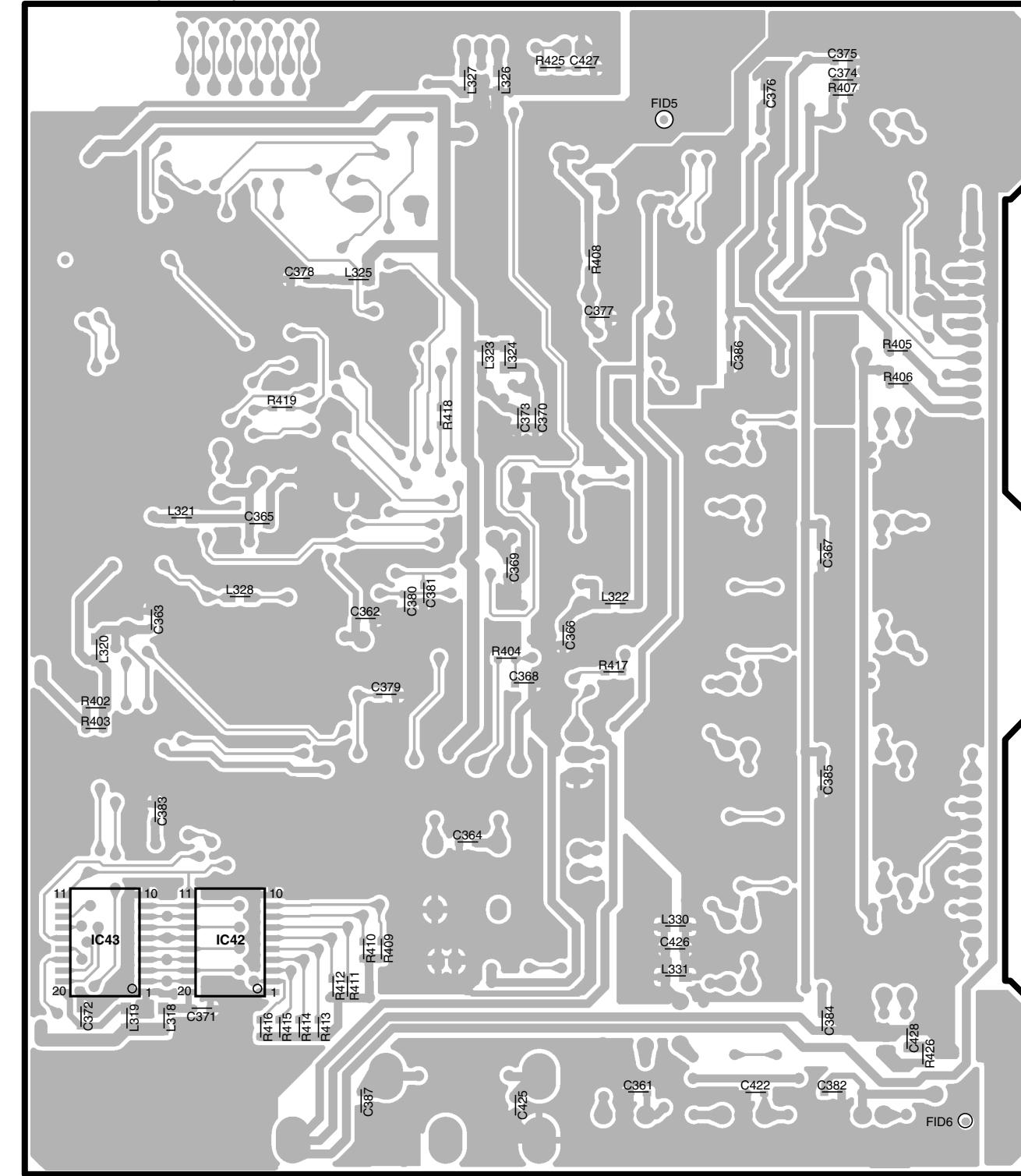
# PC BOARD(Component side view)

1  
2  
3  
4  
5  
6  
7

DSP BOARD (SIDE A)



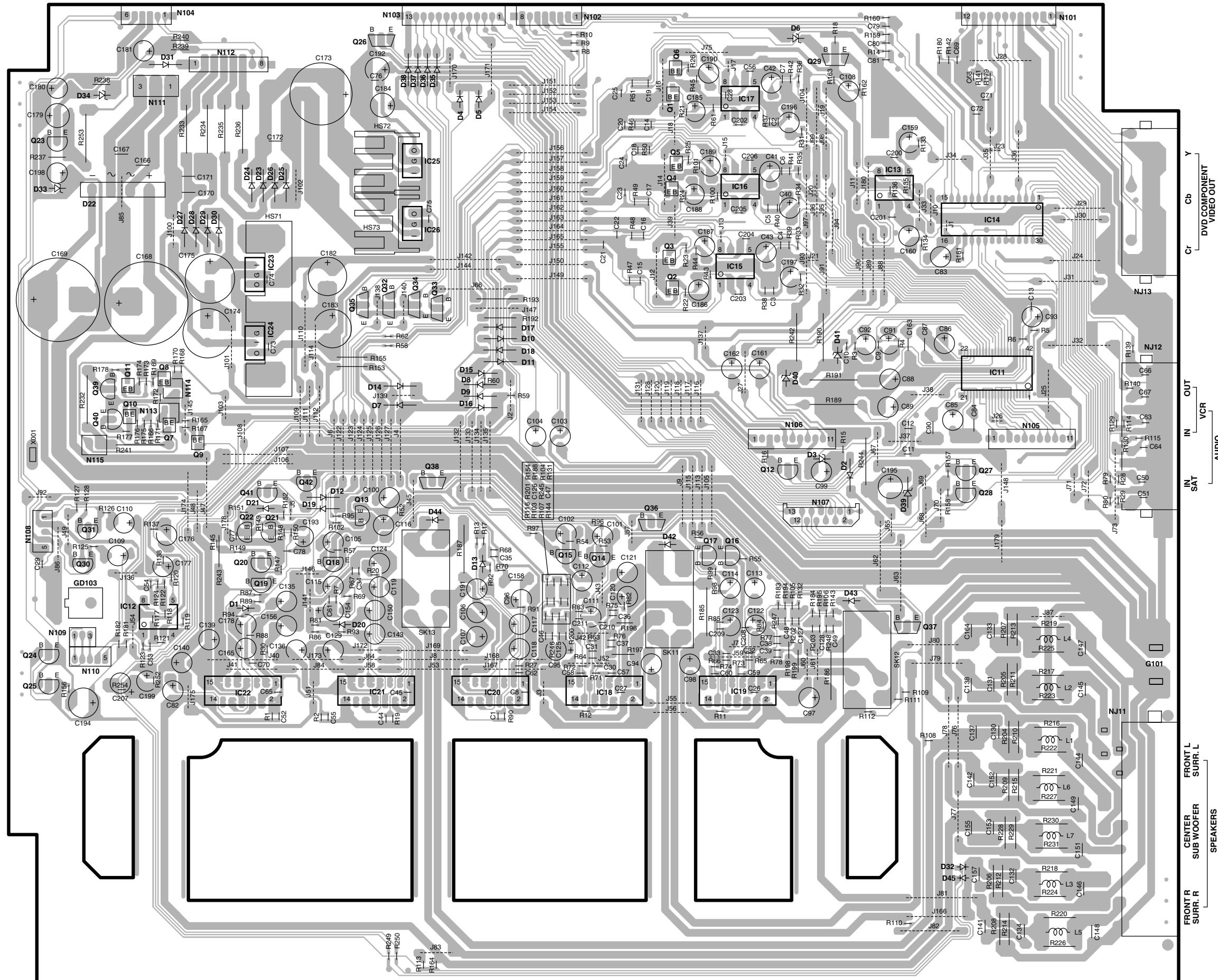
DSP BOARD (SIDE B)





## PC BOARD(Component side view)

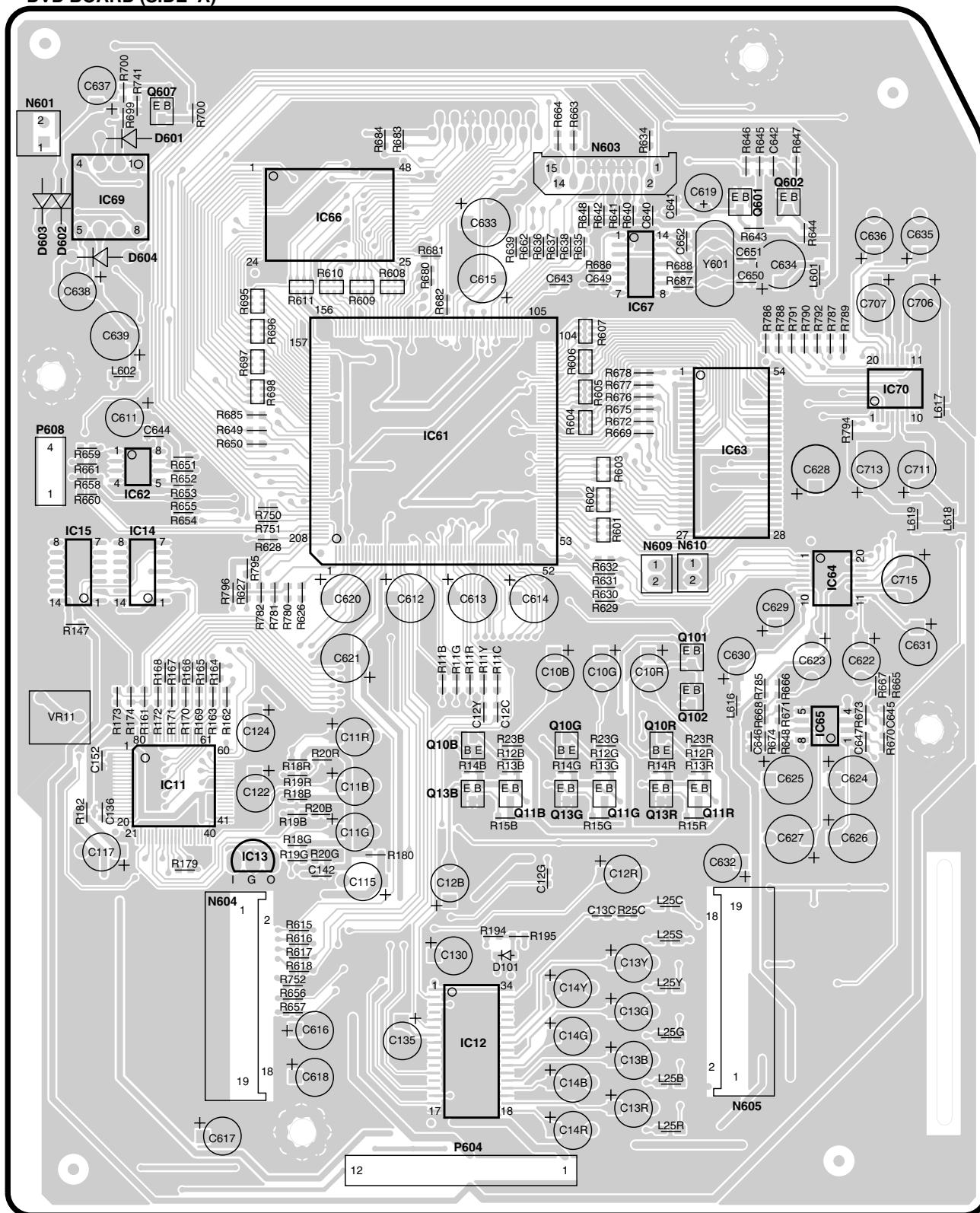
## MAIN BOARD



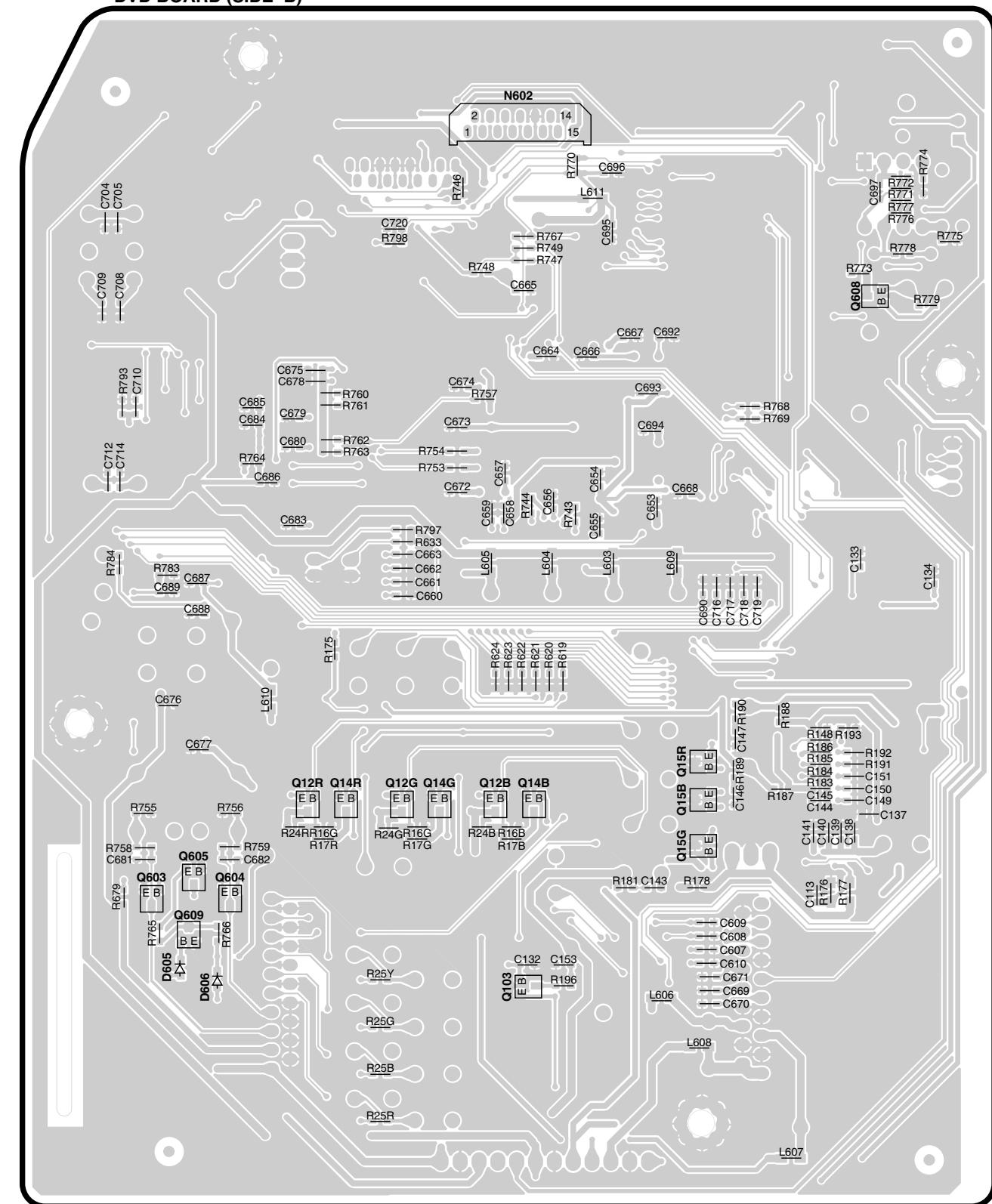
Refer to the schematic diagram for the value of resistors and capacitors.

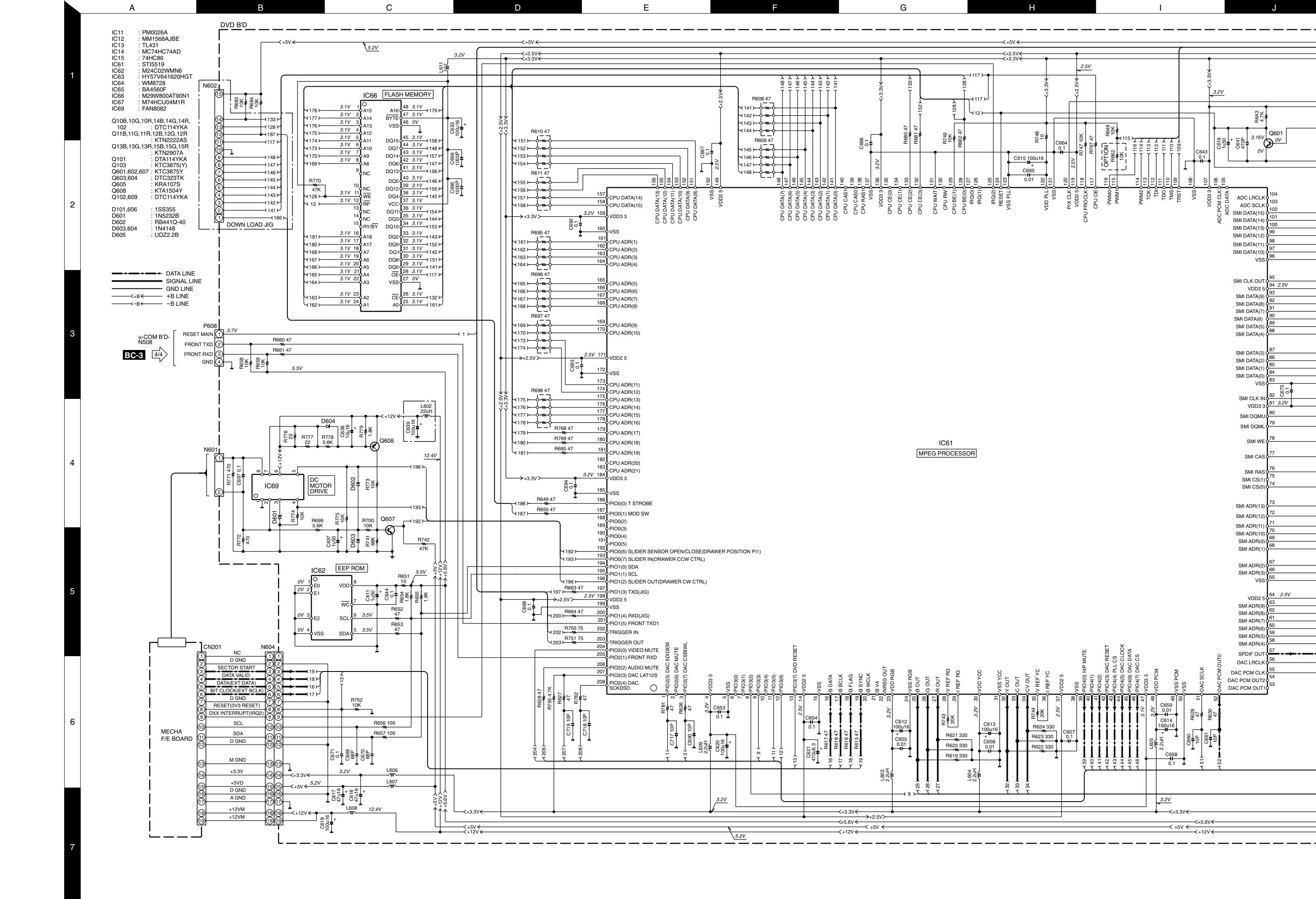
# PC BOARD(Component side view)

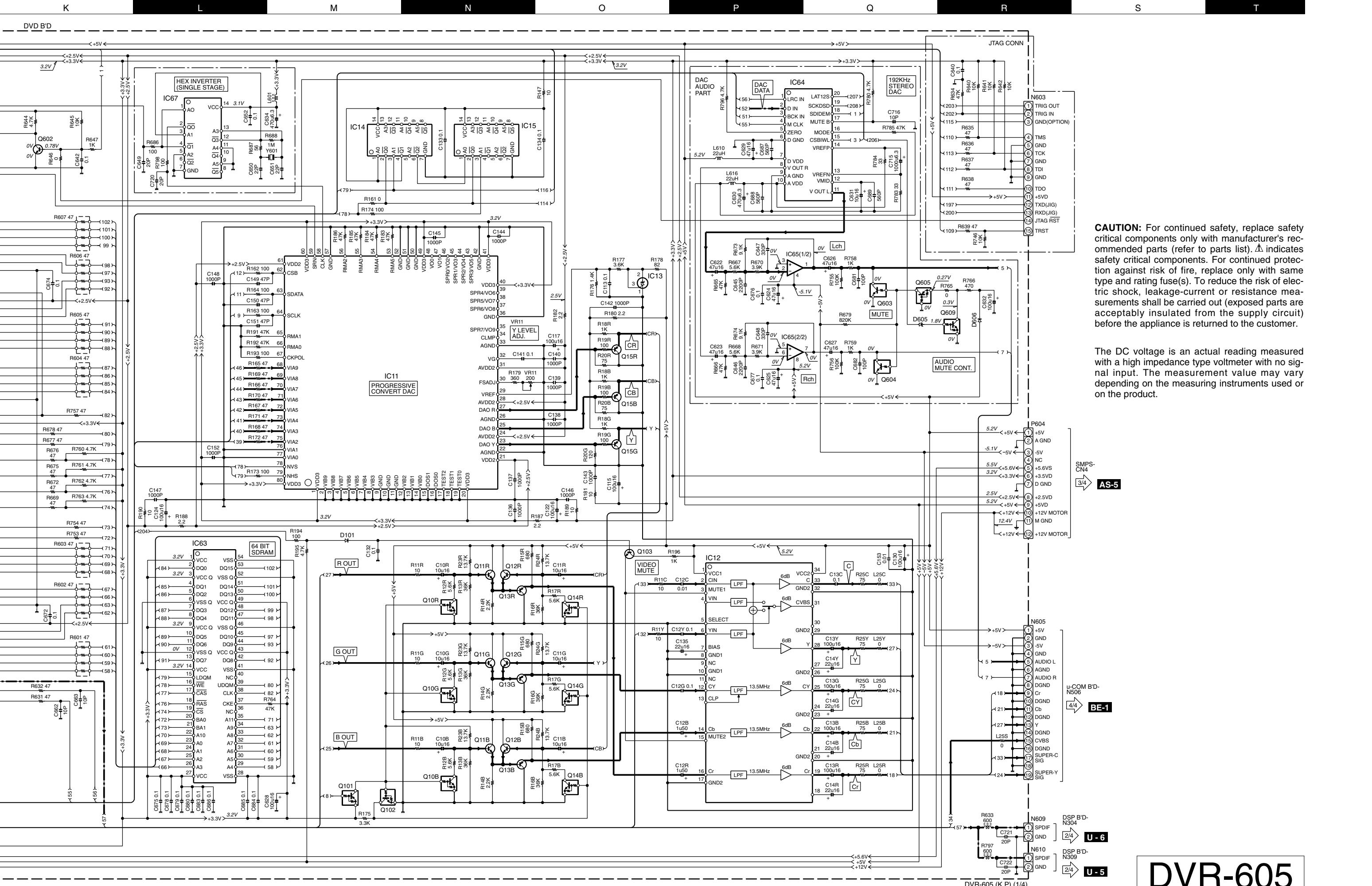
DVD BOARD (SIDE A)



DVD BOARD (SIDE B)



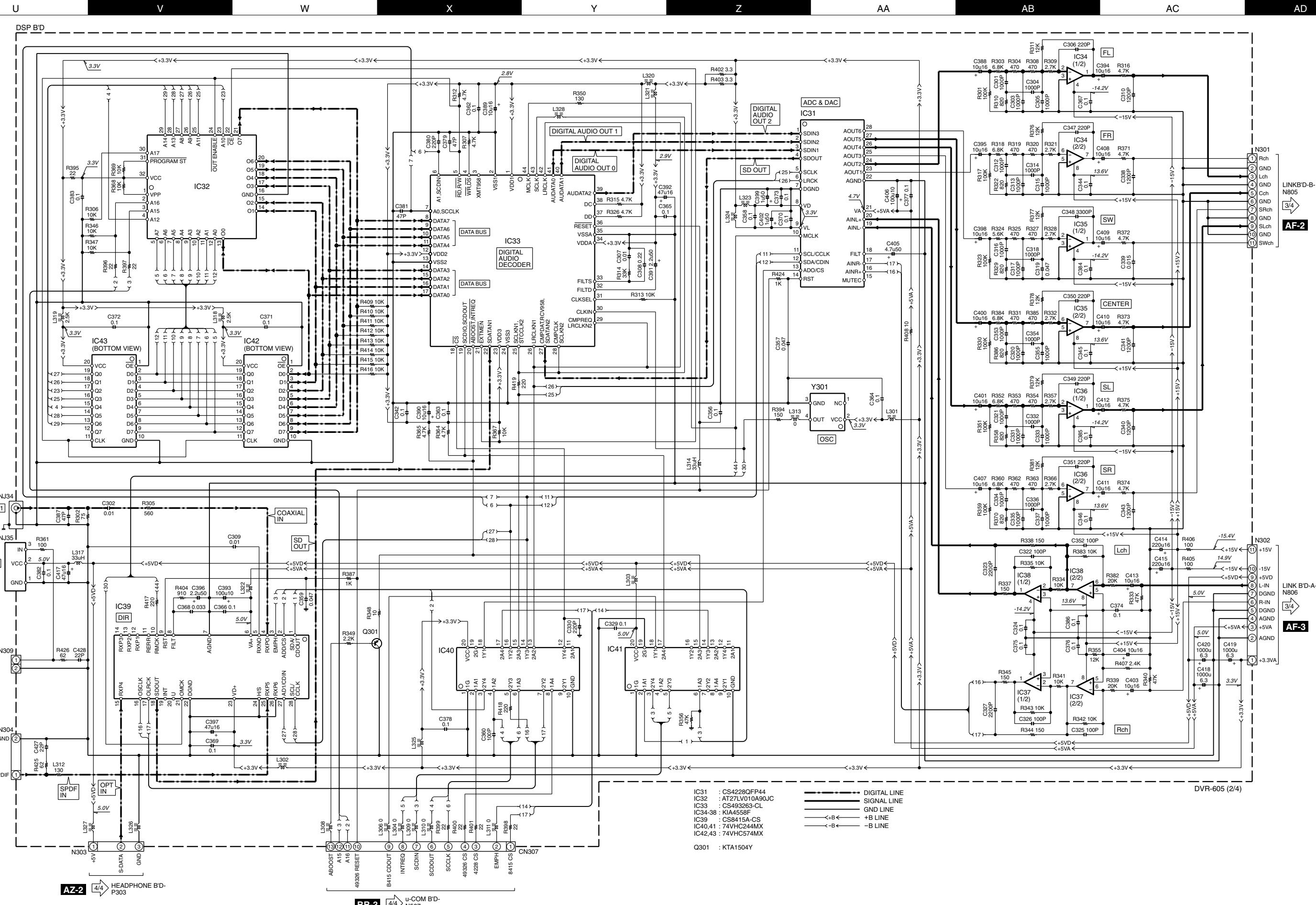




**DVR-605**

**KENWOOD**

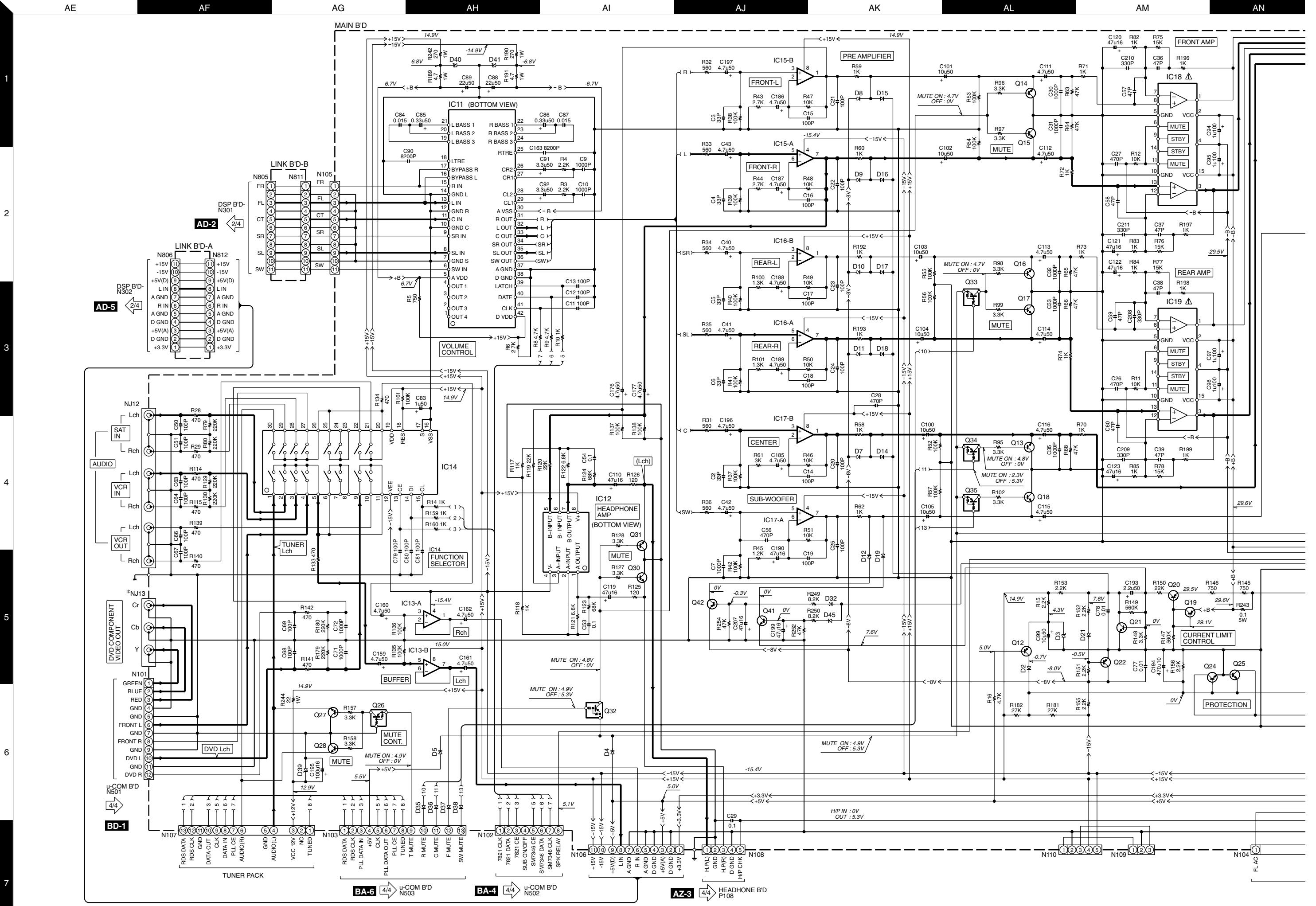
Y39-4480-10

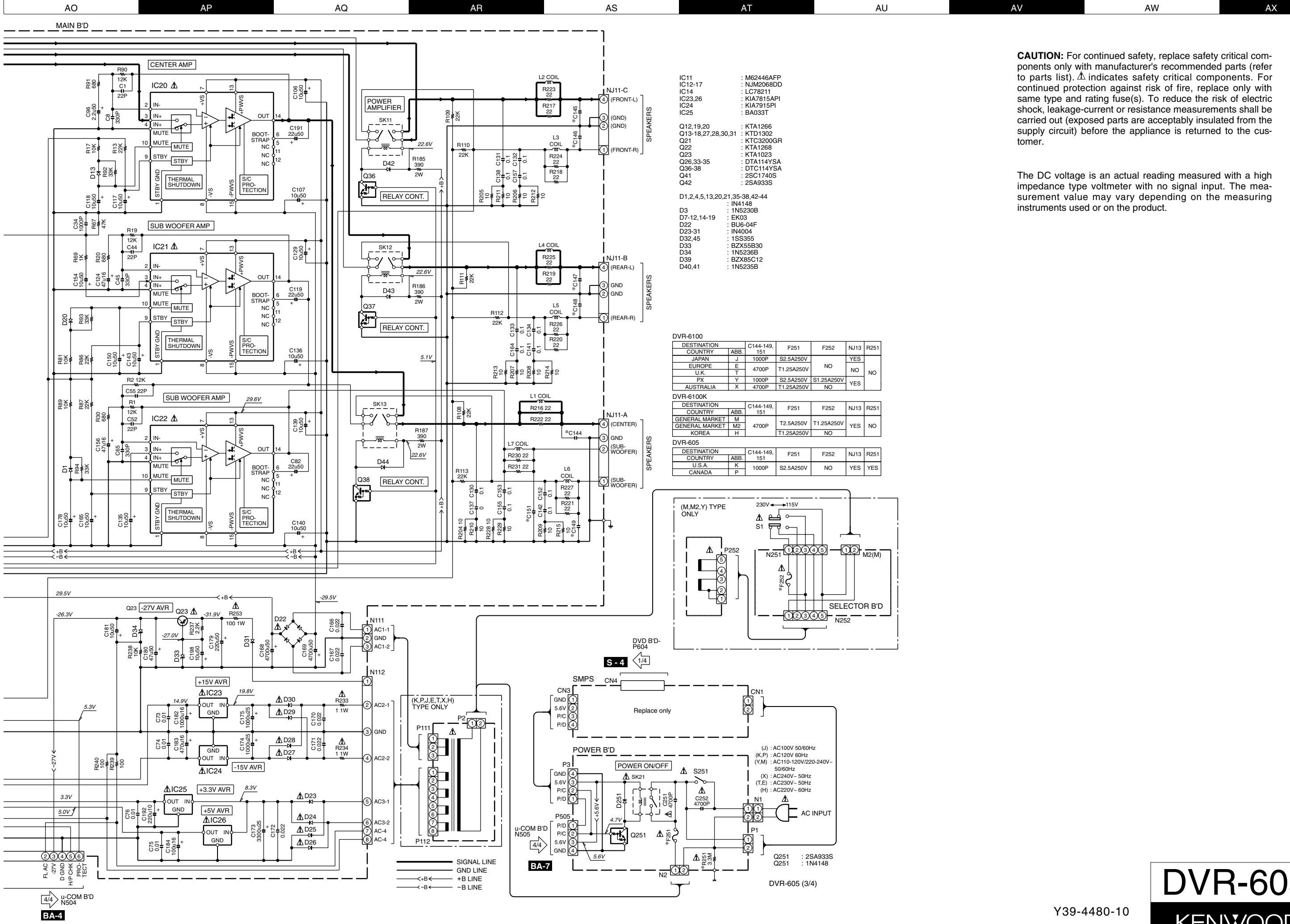


The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

**DVR-605**

**KENWOOD**

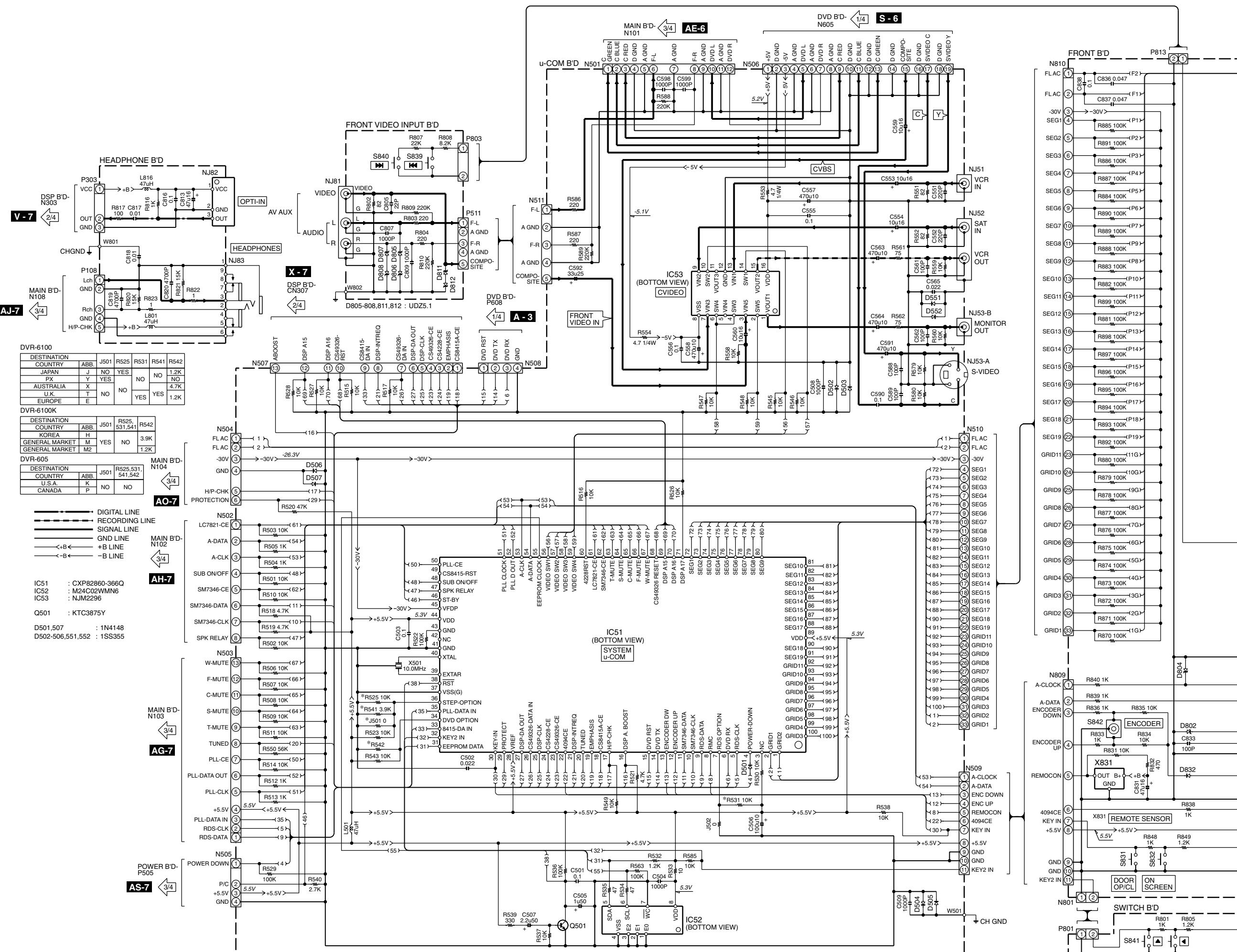




DVR-605

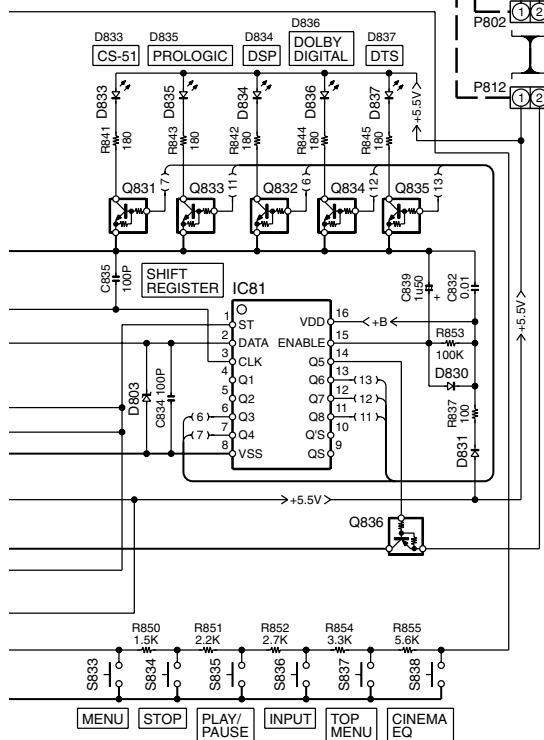
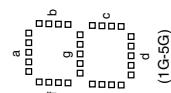
KENWOOD

Y39-4480-10

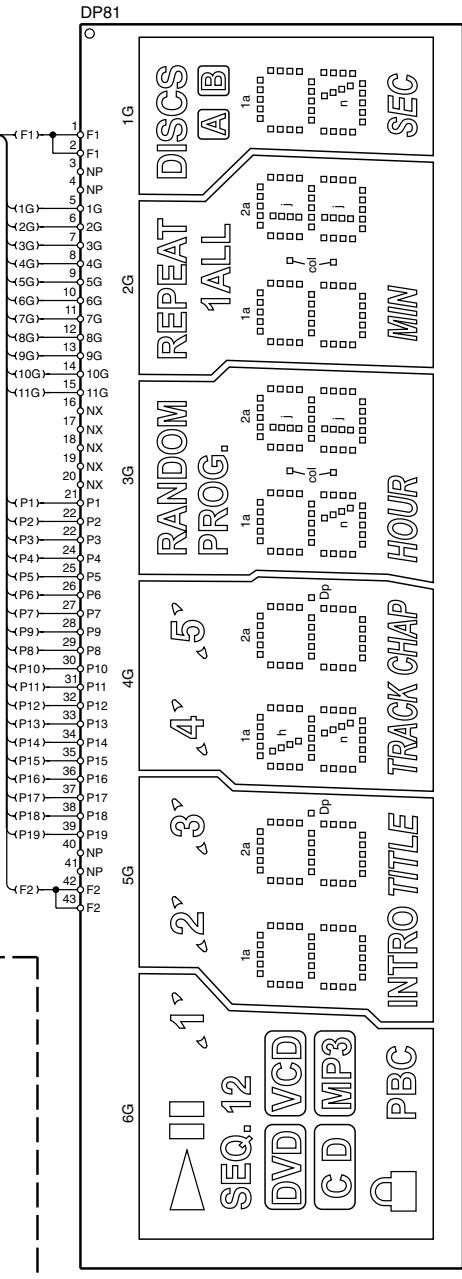
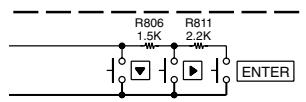


FRONT B'D

	6G	5G	4G	3G	2G	1G
P1	□□	1a	1a	1a	1a	1a
P2	△	1b	1b	1b	1b	1b
P3	SEQ.	1c	1c	1c	1c	1c
P4	1	1d	1d	1d	1d	1d
P5	2	1e	1e	1e	1e	1e
P6	—	1f	1f	1f	1f	1f
P7	DVD	1g	1g	1g	1g	1g
P8	VCD	—	1h	HOUR	MIN	SEC
P9	CD	TITLE	1n	1n	REPEAT	1n
P10	MP3	—	CHAP	col	col	—
P11	🔒	2a	2a	2a	2a	—
P12	PCB	2b	2b	2b	2b	—
P13	—	2c	2c	2c	2c	—
P14	—	2d	2d	2d	2d	—
P15	—	2e	2e	2e	2e	—
P16	—	2f	2f	2f	2f	—
P17	—	2g	2g	2g	2g	A
P18	—	INTRO	TRACK	2j	2j	B
P19	—	Dp	Dp	RANDOM	1	DISC
P20	△(1) △(2) △(3) △(4)	△(2) △(3) △(4) △(5)	△(5) △(4)	PROG.	ALL	S
P21	—	1	3	5	—	—
P22	—	2	4	—	—	—
P23	—	—	—	—	—	—



DVR-605 (4/4)



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

IC81 : BU4094BF  
Q831-835 : DTC114YKA  
Q836 : DTA114YKA  
D802-804 : UDZ5.1  
D830 : 1SS355  
D831,832 : 1N4148  
D833-838 : B30-2638-08

IC81 : BU4094BF  
Q831-835 : DTC114YKA  
Q836 : DTA114YKA

D802-804 · UD75.1

D832 831 : 1DE301  
D830 : 1SS355  
D831 832 : 1N4148

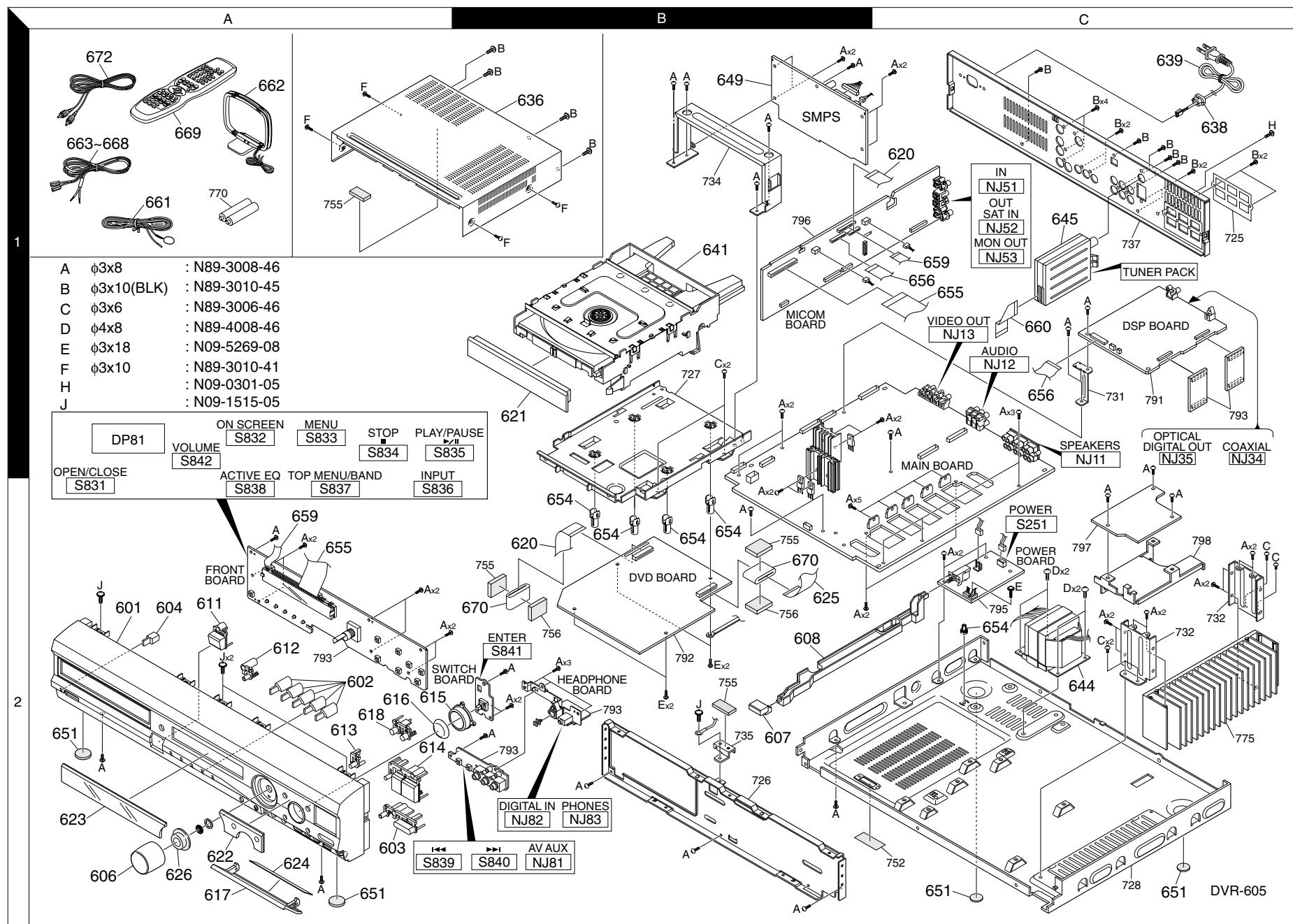
D831,832 : TN4148  
D833-838 : B30-2638-08

# DVR-605

## KENWOOD

Y39-4480-10

## EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

# DVR-605

## PARTS LIST

\* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Address	New Parts	Parts No.	Description		Desti- nation	Re- marks
<b>DVR-605</b>							
601	2A	*	B07-2651-08	DEC CABINET	55316850#1		
602	2A	*	B10-3897-08	MLD INDICATO	55316820#22		
603	2A	*	K29-8248-08	DEC BUTTON I	55316650#10		
604	2A	*	B10-3898-08	MLD INDICATO	55316830#26		
606	2A	*	K29-8249-08	DEC KNOB MAI	55316740#5		
607	2B	*	K29-8250-08	DEC BUTTON P	55316690#25		
608	2B	*	D21-2932-08	PLASTIC MLD	55220710#49		
611	2A	*	K29-8251-08	DEC BUTTON O	55316670#24		
612	2A	*	K29-8252-08	DEC BUTTON C	55316640#21		
613	2A	*	K29-8253-08	DEC BUTTON O	55316660#20		
614	2A	*	K29-8254-08	DEC BUTTON P	55316680#13		
615	2A	*	B07-2655-08	DEC RING/BUT	55316810#12		
616	2A	*	K29-8255-08	DEC BUTTON S	55316700#11		
617	2A	*	B07-2656-08	DEC DOOR FUN	55316720#8		
618	2A	*	K29-8256-08	DEC BUTTON S	55316710#14		
620	2B,1C	*	E35-3452-08	FFC-300/M 19X	21178300		
621	1B	*	B07-2657-08	DEC DOOR TRA	55316730#2		
622	2A	*	B10-3899-08	DEC CRYSTAL	55316770#7		
623	2A	*	B10-3900-08	DEC CRYSTAL	55316760#4		
624	2A	*	B07-2658-08	CPL DOOR PLA	55316800#9		
625	2B	*	E35-3453-08	FFC-80/M 19X	55181200		
626	2A	*	G11-2914-08	RAW SHIELD R	55189590#6		
636	1B	A01-3863-08	PUN COVER TO	55220680#56			
638	1C	J42-0350-08	MLD CLAMP AC	55125180#48			
639	1C	E30-2991-08	WIRE-MCRDM	55099250#47			
641	1B	*	D40-1787-08	OK TVM 502 T	10718640#55		
644	2C	*	L07-3234-08	TF-LAM POWER	55328180		
645	1C	*	W02-2964-08	EPR TUNER MO	5516112A		
649	1B	*	W02-2929-08	MSA ASY SMPS	55161420		
651	2A,2C	*	J02-1544-08	FOOT CUSHION	55220690#3		
654	2B,2C	*	J19-6169-08	MLD BRACKET	55164980#54		
655	2A,1C	E35-3273-08	FFC-JUMPER 33X	55164010			
656	1C	E35-3271-08	FFC-JUMPER 13X	55328220			
659	2A,1C	E35-3272-08	FFC-JUMPER 11X	55163980			
660	1C	E35-3271-08	FFC-JUMPER 13X	55163940			
661	1A	T90-0882-08	ANTENNA WIRE	55127470			
662	1A	T90-0896-08	ANTENNA LOOP	55208620			
663	1A	E30-7265-08	WIRE-SP 4M, RD	55236710			
664	1A	*	E30-7283-08	WIRE-SP 4M, GN	55236730		
665	1A	*	E30-7284-08	WIRE-SP 8M, BU	55380840		
666	1A	*	E30-7285-08	WIRE-SP 4.5M, VT	55380850		
667	1A	E30-7269-08	WIRE-SP 8M, GY	55192270			
668	1A	*	E30-7286-08	WIRE-SP 4M, WH	55380860		
669	1A	*	A70-1607-08	EPR RCT REMOC	55393340		
670	2B	L92-0560-08	FCORE FERRIT	55177290			
672	1A	E30-1427-05	WIRE-CABSP AUDI	55192120			
△ F251		*	B60-5262-08	BOOK INSTR(EN)	55349890		
		F50-0073-05	FUSULSLWBL 2.5	20828870			
		-	H10-7818-08	MAT-PKG CUSHI	5520874A		
		-	H10-7883-08	POLYSTYRENE FOAMED FIXTURE L			
		-	H10-7884-08	POLYSTYRENE FOAMED FIXTURE R			
-	-	-	H21-1514-08	SHEET EPE RT	55135940		
-	-	-	H25-1712-08	CPL BAG RCA	55170650		

L: Scandinavia  
Y: PX(Far East,Hawaii)  
Y: AAFES(Europe)

K: USA  
T: England  
X: Australia

P: Canada  
E: Europe  
Q: Russia

R: Mexico  
G: Germany  
H: Korea

C: China  
V: China(Shanghai)  
M: Other Areas

△

I: Malaysia  
Y: AAFES(Europe)

K: USA  
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△

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②

Ref. No	Address	New Parts	Parts No.	Description		Desti- nation	Re- marks
-	-	-	H25-1715-08	CPL BAG PE C	20715540		
-	-	-	H25-1731-08	CPL BAG POLY	55237020		
-	-	*	H25-1732-08	CPL BAG PE 4	55030950		
-	-	*	H50-4588-08	CARTON DVR60	55333230		
E			N09-5269-08	SCREW-ST 3MM	55127290		
△			IC18,9	LM4766T	IC(AUDIO POWER		
			IC20-2	TDA7294	IC-POWAMP		
<b>POWER SUPPLY</b>							
△	C251,2		C91-1645-08	CERAMIC	0.0047UF	250VAC	
△	R251		R92-1844-05	CARBON	3.3M	J 1/2W	
△	SK21		S76-0137-08	RELAYPWR 5.0V	55183470		
△	S251		S90-0149-08	SWIPUSH POWER	55141570		
D251			1N4148	D-SLP	1N4148		
Q251			DTC114YSA	TR-SLPLF	DTC114YSA		
<b>MAIN PCB</b>							
C 1			CC73GCH1H220J	CHIP C	22PF	J	
C 2-6			CC73GCH1H330J	CHIP C	33PF	J	
C 7			CK73GB1H102K	CHIP C	1000PF	K	
C 8			CK73GB1H331J	CHIP C	330PF	J	
C 9,10			CK73GB1H102K	CHIP C	1000PF	K	
C 11-25			CC73GCH1H101J	CHIP C	100PF	J	
C 26-8			CC73GCH1H471J	CHIP C	470PF	J	
C 29			CK73GB1C104K	CHIP C	0.10UF	K	
C 30-5			CK73GB1H102K	CHIP C	1000PF	K	
C 36-9			CC73GCH1H470J	CHIP C	47PF	J	
C 40-3			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	
C 44			CC73GCH1H220J	CHIP C	22PF	J	
C 45			CK73GB1H331J	CHIP C	330PF	J	
C 50,1			CC73GCH1H101J	CHIP C	100PF	J	
C 52			CC73GCH1H220J	CHIP C	22PF	J	
C 53,4			CK73GB1C104K	CHIP C	0.10UF	K	
C 55			CC73GCH1H220J	CHIP C	22PF	J	
C 56			CC73GCH1H471J	CHIP C	470PF	J	
C 57-60			CC73GCH1H470J	CHIP C	47PF	J	
C 63,4			CC73GCH1H101J	CHIP C	100PF	J	
C 65			CK73GB1H331J	CHIP C	330PF	J	
C 66-9			CC73GCH1H101J	CHIP C	100PF	J	
C 71,2			CK73GB1H102K	CHIP C	1000PF	K	
C 73-8			CK73GB1H103K	CHIP C	0.010UF	K	
C 79-81			CC73GCH1H101J	CHIP C	100PF	J	
C 82			CE04LW1H220M	ELECTRO	22UF	50WV	
C 83			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C 84			CQ92M1H153K	MYLAR	0.015UF	K	
C 85,6			CE04LW1HR33M	ELECTRO	0.33UF	50WV	
C 87			CQ92M1H153K	MYLAR	0.015UF	K	
C 88,9			CE04LW1H220M	ELECTRO	22UF	50WV	
C 90			CQ92M1H822K	MYLAR	8200PF	K	
C 91,2			CE04LW1H3R3M	ELECTRO	3.3UF	50WV	
C 94,5			CE04LW2A010M	ELECTRO	1.0UF	100WV	
C 96			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C 97,8			CE04LW2A010M	ELECTRO	1.0UF	100WV	

L: Scandinavia  
Y: PX(Far East,Hawaii)  
Y: AAFES(Europe)

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G: Germany  
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△

## PARTS LIST

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③

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
C 99-107			CE04LW1H100M	ELECTRO	10UF	50WV
C109,10			CE04LW1C470M	ELECTRO	47UF	16WV
C111-6			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C117,8			CE04LW1H100M	ELECTRO	10UF	50WV
C119			CE04LW1H220M	ELECTRO	22UF	50WV
C120-4			CE04LW1C470M	ELECTRO	47UF	16WV
C129			CE04LW1H100M	ELECTRO	10UF	50WV
C130-4			CG92FM1H104K	MYLAR	0.10UF	K
C135,6			CE04LW1H100M	ELECTRO	10UF	50WV
C137,8			CG92FM1H104K	MYLAR	0.10UF	K
C139,40			CE04LW1H100M	ELECTRO	10UF	50WV
C141,2			CG92FM1H104K	MYLAR	0.10UF	K
C143			CE04LW1H100M	ELECTRO	10UF	50WV
C144-9			CG92FM1H102K	MYLAR	1000PF	K
C150			CE04LW1H100M	ELECTRO	10UF	50WV
C151			CG92FM1H102K	MYLAR	1000PF	K
C152,3			CG92FM1H104K	MYLAR	0.10UF	K
C154			CE04LW1H100M	ELECTRO	10UF	50WV
C155			CG92FM1H104K	MYLAR	0.10UF	K
C156			CE04LW1C470M	ELECTRO	47UF	16WV
C157			CG92FM1H104K	MYLAR	0.10UF	K
C158			CE04LW1H4R7M	BCL 0.5MM TIN	20330130	
C159-62			CE04LW1H222K	ELECTRO	4.7UF	50WV
C163			CG92FM1H104K	MYLAR	8200PF	K
C164			CG92FM1H104K	MYLAR	0.10UF	K
C165			CE04LW1H100M	ELECTRO	10UF	50WV
C166,7			CG92FM1H223K	MYLAR	0.022UF	K
C168,9			CE04KW1H472M	ELECTRO	4700UF	50WV
C170-2			CG92FM1H223K	MYLAR	0.022UF	K
C173			CE04KW1E332M	ELECTRO	3300UF	25WV
C174,5			CE04KW1E102M	ELECTRO	1000UF	25WV
C176,7			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C178			CE04LW1H100M	ELECTRO	10UF	50WV
C179			CE04LW1H221M	ELECTRO	220UF	50WV
C180			CE04LW1H470M	ELECTRO	47UF	50WV
C181			CE04LW1H100M	ELECTRO	10UF	50WV
C182			CE04KW1C102M	ELECTRO	1000UF	16WV
C183			CE04LW1C470M	ELECTRO	47UF	16WV
C184			CE04LW1C101M	ELECTRO	100UF	16WV
C185-9			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C190			CE04LW1C470M	ELECTRO	47UF	16WV
C191			CE04LW1H220M	ELECTRO	22UF	50WV
C192			CE04LW1A221M	ELECTRO	220UF	10WV
C193			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C194			CE04LW1A471M	ELECTRO	470UF	10WV
C195			CE04LW1C101M	ELECTRO	100UF	16WV
C196,7			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C198			CE04LW1H100M	ELECTRO	10UF	50WV
C199			CE04LW1C470M	ELECTRO	47UF	16WV
C207			CE04LW1C470M	ELECTRO	47UF	16WV
C208-11			CK73GB1H331J	CHIP C	330PF	J
N107			E41-0824-08	CONN 1.25MM 13	55124790	
NJ11			E70-0165-08	CONN-SPE TERMINAL	55237010	
NJ12			E63-1270-08	CON PHONO SCKT	55203340	

L : Scandinavia

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④

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
NJ13			E63-1271-08	CON PHONO SCKT 55192000		
L 1-7			L39-1624-08	LFA 1MM 10MM 7 21070690		
J 1			RK73GB1J000J	CHIP R 0	J 1/16W	
J 5			RK73GB1J000J	CHIP R 0	J 1/16W	
J 13			RK73GB1J000J	CHIP R 0	J 1/16W	
J 15			RK73GB1J000J	CHIP R 0	J 1/16W	
J 17			RK73GB1J000J	CHIP R 0	J 1/16W	
J 19			RK73GB1J000J	CHIP R 0	J 1/16W	
J 20,1			RK73GB1J000J	CHIP R 0	J 1/16W	
J 23			RK73GB1J000J	CHIP R 0	J 1/16W	
J 26			RK73GB1J000J	CHIP R 0	J 1/16W	
R 1,2			RK73GB1J123J	CHIP R 12K	J 1/16W	
R 3,4			RK73GB1J222J	CHIP R 2.2K	J 1/16W	
R 5			RK73GB1J751J	CHIP R 750	J 1/16W	
R 6			RK73GB1J272J	CHIP R 2.7K	J 1/16W	
R 8,9			RK73GB1J472J	CHIP R 4.7K	J 1/16W	
R 10			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R 11,2			RK73GB1J103J	CHIP R 10K	J 1/16W	
R 13			RK73GB1J223J	CHIP R 22K	J 1/16W	
R 14			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R 15			RK73GB1J222J	CHIP R 2.2K	J 1/16W	
R 16			RK73GB1J472J	CHIP R 4.7K	J 1/16W	
R 17			RK73GB1J103J	CHIP R 10K	J 1/16W	
R 19			RK73GB1J123J	CHIP R 12K	J 1/16W	
R 20			RK73GB1J681J	CHIP R 680	J 1/16W	
R 28,9			RK73GB1J471J	CHIP R 470	J 1/16W	
R 30			RK73GB1J681J	CHIP R 680	J 1/16W	
R 31-6			RK73GB1J561J	CHIP R 560	J 1/16W	
R 37-42			RK73GB1J104J	CHIP R 100K	J 1/16W	
R 43,4			RK73GB1J272J	CHIP R 2.7K	J 1/16W	
R 45			RK73GB1J122J	CHIP R 1.2K	J 1/16W	
R 46-51			RK73GB1J103J	CHIP R 10K	J 1/16W	
R 52-7			RK73GB1J104J	CHIP R 100K	J 1/16W	
R 58-60			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R 61			RK73GB1J302J	CHIP R 3.0K	J 1/16W	
R 62			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R 63-8			RK73GB1J473J	CHIP R 47K	J 1/16W	
R 69-74			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R 75-8			RK73GB1J153J	CHIP R 15K	J 1/16W	
R 79,80			RK73GB1J224J	CHIP R 220K	J 1/16W	
R 81			RK73GB1J103J	CHIP R 10K	J 1/16W	
R 82-5			RK73GB1J102J	CHIP R 1.0K	J 1/16W	
R 86,7			RK73GB1J223J	CHIP R 22K	J 1/16W	
R 89			RK73GB1J103J	CHIP R 10K	J 1/16W	
R 90			RK73GB1J123J	CHIP R 12K	J 1/16W	
R 91			RK73GB1J681J	CHIP R 680	J 1/16W	
R 92-4			RK73GB1J333J	CHIP R 33K	J 1/16W	
R 95-9			RK73GB1J332J	CHIP R 3.3K	J 1/16W	
R100,1			RK73GB1J132J	CHIP R 1.3K	J 1/16W	
R102			RK73GB1J332J	CHIP R 3.3K	J 1/16W	
R108-13			RK73GB1J223J	CHIP R 22K	J 1/16W	
R114,5			RK73GB1J471J	CHIP R 470	J 1/16W	
R117,8			RK73GB1J102J	CHIP R 1.0K	J 1/16W	

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5

Ref. No	Address	New Parts	Parts No.	Description			Desti- nation	Re- marks
R119,20			RK73GB1J223J	CHIP R	22K	J	1/16W	
R121,2			RK73GB1J682J	CHIP R	6.8K	J	1/16W	
R123,4			RK73GB1J683J	CHIP R	68K	J	1/16W	
R125,6			RK73GB1J121J	CHIP R	120	J	1/16W	
R127,8			RK73GB1J332J	CHIP R	3.3K	J	1/16W	
R129,30			RK73GB1J224J	CHIP R	220K	J	1/16W	
R133,4			RK73GB1J471J	CHIP R	470	J	1/16W	
R135-8			RK73GB1J104J	CHIP R	100K	J	1/16W	
R139-42			RK73GB1J471J	CHIP R	470	J	1/16W	
R145,6			RK73GB1J751J	CHIP R	750	J	1/16W	
R147			RK73GB1J664J	CHIP R	560K	J	1/16W	
R148			RK73GB1J332J	CHIP R	3.3K	J	1/16W	
R149			RK73GB1J664J	CHIP R	560K	J	1/16W	
R150			RK73GB1J223J	CHIP R	22K	J	1/16W	
R151,2			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R156			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R157,8			RK73GB1J332J	CHIP R	3.3K	J	1/16W	
R159,60			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R161			RK73GB1J104J	CHIP R	100K	J	1/16W	
R179,80			RK73GB1J224J	CHIP R	220K	J	1/16W	
R181,2			RK73GB1J273J	CHIP R	27K	J	1/16W	
R185-7			RS14GB3D391J	FL-PROOF RS	390	J	2W	
R189			RS14GB3A4R7J	FL-PROOF RS	4.7	J	1W	
R190			RS14GB3A271J	FL-PROOF RS	270	J	1W	
R191			RS14GB3A4R7J	FL-PROOF RS	4.7	J	1W	
▲ R233,4			RS14GB3A1R0J	FL-PROOF RS	1	J	1W	
R235,6			-	BCL 0.5MM TIN	20441260			
R242			RS14GB3A271J	FL-PROOF RS	270	J	1W	
R243			R92-4582-08	METAL PLATE	0.1	J	5W	
R244			RS14GB3A220J	FL-PROOF RS	22	J	1W	
▲ R249,50			RK73GB1J822J	CHIP R	8.2K	J	1/16W	
R252			RK73GB1J473J	CHIP R	47K	J	1/16W	
R253			RS14GB3A101J	FL-PROOF RS	100	J	1W	
R254			RK73GB1J473J	CHIP R	47K	J	1/16W	
SK11-3			S76-0136-08	RELAYPWR 24.0V	55091520			
D 1,2			1N4148	D-SLP	1N4148			
D 3			1N5230B	D-ZENER	1N5230B			
D 4,5			1N4148	D-SLP	1N4148			
D 7-12			EK03	D-SR SCHOTTKY	EK03			
D 13			1N4148	D-SLP	1N4148			
▲ D 14-9			EK03	D-SR SCHOTTKY	EK03			
D 20,1			1N4148	D-SLP	1N4148			
D 22			BU6-04F	D-BRDLC	BU6-04F			
D 23-31			1N4004	D-SR	1N4004			
D 32			1SS355	D-SLP	1SS355			
D 33			BZX55B30	D-ZENER	BZX55B30			
D 34			1N5236B	D-ZENER	1N5236B			
D 35-8			1N4148	D-SLP	1N4148			
D 39			BZX85C12	D-ZENER	BZX85C12			
D 40,1			1N5235B	D-ZENER	1N5235B			
D 42-4			1N4148	D-SLP	1N4148			
D 45			1SS355	D-SLP	1SS355			
IC 11		*	M62446Afp	IC-LOWFREQ	M62446Afp			
IC 12,3		*	NJM2068DD	IC-OPERAMP	NJM2068DD			

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6

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IC 14			LC78211	IC-SWITCH	LC78211			
IC 15-7			NJM2068DD	IC-OPERAMP	NJM2068DD			
IC 23			KIA7815API	IC-REGPOSFXD	KIA7815API			
IC 24			KIA7915PI	IC-REGNEGFXD	KIA7915PI			
IC 25			BA033T	IC(ANALOGUE IC)	BA033T			
▲ IC 26			KIA7805API	IC(VOLTAGE REGULATOR)				
Q 12			KTA1266	TR-SLPLF	KTA1266			
Q 13-8			KTD1302	TR-SLPLF	KTD1302			
Q 19,20			KTA1266	TR-SLPLF	KTA1266			
Q 21			KTC3200GR	TR-SHPLF	KTC3200BL			
▲ Q 22			KTA1268	TR-SLPLF	KTA1268 GR			
Q 23			KTA1023	TR-SLPLF	55211430			
Q 26			DTA114YSA	TR-SLPLF	DTA114YSA			
Q 27,28			KTD1302	TR-SLPLF	KTD1302			
Q 30,31			KTD1302	TR-SLPLF	KTD1302			
Q 33-35			DTA114YSA	TR-SLPLF	DTA114YSA			
Q 36-8			DTC114YSA	TR-SLPLF	DTC114YSA			
Q 41			2SC1740S	TR-SLPLF	2SC1740S			
Q 42			2SA933S	TR-SLPLF	2SA933S			
<b>FRONT PCB</b>								
C805			CC73GCH1H220J	CHIP C	22PF	J		
C807			CK73GB1H102K	CHIP C	1000PF	K		
C809			CK73GB1H102K	CHIP C	1000PF	K		
C813			CE04LW1C470M	ELECTRO	47UF	16WV		
C816			CK73GB1C104K	CHIP C	0.10UF	K		
C817,8			CK45FB1C103K	CERAMIC	0.010UF	K		
C819,20			CK73GB1H472K	CHIP C	4700PF	K		
C831			CE04KW1C470M	ELECTRO	47UF	16WV		
C832			CK73GB1H103K	CHIP C	0.010UF	K		
C833-5			CC73GCH1H101J	CHIP C	100PF	J		
C836,7			CK45FB1H473K	CERAMIC	0.047UF	K		
C838			CK45FB1E103K	CERAMIC	0.010UF	K		
C839			CE04LW1H010M	ELECTRO	1.0UF	50WV		
N809			E41-0823-08	CONN 1.25MM 11	55124780			
N810			E35-3017-08	CONN 1.25MM 33	55129060			
NJ81			E63-1272-08	CON PHONO SCKT	55151980			
NJ83			E11-0957-08	CONN-PHJAC 3.5	55198170			
L801			L801					
L816		*	L816					
J801			RK73GB1J000J	CHIP R	0	J	1/16W	
J803,4			RK73GB1J000J	CHIP R	0	J	1/16W	
J821			RK73GB1J000J	CHIP R	0	J	1/16W	
J823			RK73GB1J000J	CHIP R	0	J	1/16W	
J824			RK73GB1J000J	CHIP R	0	J	1/16W	
J841			RK73GB1J000J	CHIP R	0	J	1/16W	
R801			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R802			RK73GB1J820J	CHIP R	82	J	1/16W	
R803,4			RK73GB1J221J	CHIP R	220	J	1/16W	
R805			RK73GB1J122J	CHIP R	1.2K	J	1/16W	
R806			RK73GB1J152J	CHIP R	1.5K	J	1/16W	
R807			RK73GB1J223J	CHIP R	22K	J	1/16W	
R808			RK73GB1J822J	CHIP R	8.2K	J	1/16W	
R809,10			RK73GB1J224J	CHIP R	220K	J	1/16W	
R811			RK73GB1J222J	CHIP R	2.2K	J	1/16W	

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8

Ref. No	Add- ress	New Parts	Parts No.	Description			Desti- nation	Re- marks
R816			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R817			RK73GB1J101J	CHIP R	100	J	1/16W	
R820,1			RK73GB1J153J	CHIP R	15K	J	1/16W	
R822,3			RK73GB1J101J	CHIP R	1	J	1/16W	
R831			RK73GB1J103J	CHIP R	10K	J	1/16W	
R832			RK73GB1J471J	CHIP R	470	J	1/16W	
R833			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R834,5			RK73GB1J103J	CHIP R	10K	J	1/16W	
R836			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R837			RK73GB1J101J	CHIP R	100	J	1/16W	
R838			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R841-6			RK73GB1J181J	CHIP R	180	J	1/16W	
R848			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R849			RK73GB1J122J	CHIP R	1.2K	J	1/16W	
R850			RK73GB1J152J	CHIP R	1.5K	J	1/16W	
R851			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R852			RK73GB1J272J	CHIP R	2.7K	J	1/16W	
R853			RK73GB1J104J	CHIP R	100K	J	1/16W	
R854			RK73GB1J332J	CHIP R	3.3K	J	1/16W	
R855			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R881-99			RK73GB1J104J	CHIP R	100K	J	1/16W	
S831-40	*	S70-0087-08	SWITACT VERTIC	55145270				
S841		S90-0152-08	SWIPUSH VERTIC	55155850				
S842		T99-0668-08	PR-ROT 10K0 OH	55191680				
D802-8		UDZ5.1	D-ZENER	UDZ 5.1				
D811,2		UDZ5.1	D-ZENER	UDZ 5.1				
D830		1SS355	D-SLP	1SS355				
D831,2		IN4148	D-SLP	IN4148				
D833-8		B30-2638-08	D-LEM L-7104SR	55192130				
DP81		HNV-11SM18	DISPLAY HNV-11	55161410				
IC81		BU4094BF	IC(8bit SHIFT/STORE REGISTER)					
Q831-5		DTC114YKA	TR-SSD	DTC114YKA				
Q836		DTA114YKA	TR-SSD	DTA114YKA				
X831		W02-2935-08	IC-REMOTE	55193920				
NJ82	*	W02-2961-08	IC-OPT	55311530				

## DVD PCB (PROGRESSIVE SCAN)

C 10B		CE04LW1C100M	ELECTRO	10UF	16WV			
C 10G		CE04LW1C100M	ELECTRO	10UF	16WV			
C 10R		CE04LW1C100M	ELECTRO	10UF	16WV			
C 11B		CE04LW1C100M	ELECTRO	10UF	16WV			
C 11G		CE04LW1C100M	ELECTRO	10UF	16WV			
C 11R		CE04LW1C100M	ELECTRO	10UF	16WV			
C 12B		CE04LW1H010M	ELECTRO	1.0UF	50WV			
C 12C		CK73GB1H103K	CHIP C	0.010UF	K			
C 12G		CK73GB1C104K	CHIP C	0.10UF	K			
C 12R		CE04LW1H010M	ELECTRO	1.0UF	50WV			
C 12Y		CK73GB1C104K	CHIP C	0.10UF	K			
C 13B		CE04LW1C101M	ELECTRO	100UF	16WV			
C 13C		CK73GB1C104K	CHIP C	0.10UF	K			
C 13G		CE04LW1C101M	ELECTRO	100UF	16WV			
C 13R		CE04LW1C101M	ELECTRO	100UF	16WV			
C 13Y		CE04LW1C101M	ELECTRO	100UF	16WV			
C 14B		CE04LW1C220M	ELECTRO	22UF	16WV			

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C 14G			CE04LW1C220M	ELECTRO	22UF	16WVC	14R	
C14R			CE04LW1C220M	ELECTRO	22UF	16WV		
C 14Y			CE04LW1C220M	ELECTRO	22UF	16WV		
C113			CK73GB1C104K	CHIP C	0.10UF	K		
C115			CE04LW1C101M	ELECTRO	100UF	16WV		
C117			CE04LW1C101M	ELECTRO	100UF	16WV		
C122			CE04LW1C101M	ELECTRO	100UF	16WV		
C124			CE04LW1C101M	ELECTRO	100UF	16WV		
C130			CE04LW1C101M	ELECTRO	100UF	16WV		
C132-4			CK73GB1C104K	CHIP C	0.10UF	K		
C135			CE04LW1C220M	ELECTRO	22UF	16WV		
C136-40			CK73GB1H102K	CHIP C	1000PF	K		
C141			CK73GB1C104K	CHIP C	0.10UF	K		
C142-8			CK73GB1H102K	CHIP C	1000PF	K		
C149-51			CC73GCH1H470J	CHIP C	47PF	J		
C152			CK73GB1H102K	CHIP C	1000PF	K		
C153			CK73GB1H103K	CHIP C	0.010UF	K		
L 25B			RK73GB1J000J	CHIP R	0	J	1/16W	
L 25C			RK73GB1J000J	CHIP R	0	J	1/16W	
L 25G			RK73GB1J000J	CHIP R	0	J	1/16W	
L 25R			RK73GB1J000J	CHIP R	0	J	1/16W	
L 25S			RK73GB1J000J	CHIP R	0	J	1/16W	
L 25Y			RK73GB1J000J	CHIP R	0	J	1/16W	
R 11B			RK73GB1J000J	CHIP R	10	J	1/16W	
R 11C			RK73GB1J000J	CHIP R	10	J	1/16W	
R 11G			RK73GB1J000J	CHIP R	10	J	1/16W	
R 11R			RK73GB1J000J	CHIP R	10	J	1/16W	
R 11S			RK73GB1J100J	CHIP R	10	J	1/16W	
R 11Y			RK73GB1J100J	CHIP R	10	J	1/16W	
R 12B			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R 12G			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R 12R			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R 13B			RK73GB1J363J	CHIP R	36K	J	1/16W	
R 13G			RK73GB1J363J	CHIP R	36K	J	1/16W	
R 13R			RK73GB1J363J	CHIP R	36K	J	1/16W	
R 14B			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R 14G			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R 14R			RK73GB1J681J	CHIP R	680	J	1/16W	
R 15G			RK73GB1J681J	CHIP R	680	J	1/16W	
R 15R			RK73GB1J681J	CHIP R	680	J	1/16W	
R 16B			RK73GB1J363J	CHIP R	36K	J	1/16W	
R 16G			RK73GB1J363J	CHIP R	36K	J	1/16W	
R 16R			RK73GB1J363J	CHIP R	36K	J	1/16W	
R 17B			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R 17G			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R 17R			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R 18B			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R 18G			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R 18R			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R 19B			RK73GB1J101J	CHIP R	100	J	1/16W	
R 19G			RK73GB1J101J	CHIP R	100	J	1/16W	
R 19R			RK73GB1J101J	CHIP R	100	J	1/16W	
R 20B			RK73GB1J750J	CHIP R	75	J	1/16W	

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⑨

Ref. No	Address	New Parts	Parts No.	Description			Desti- nation	Re- marks
R 20G			RK73GB1J121J	CHIP R	120	J	1/16W	
R 20R			RK73GB1J750J	CHIP R	75	J	1/16W	
R 23B			RK73GB1J1372F	CHIP R	13.7K	F	1/16W	
R 23G			RK73GB1J1372F	CHIP R	13.7K	F	1/16W	
R 23R			RK73GB1J1372F	CHIP R	13.7K	F	1/16W	
R 24B			RK73GB1J1372F	CHIP R	13.7K	F	1/16W	
R 24G			RK73GB1J1372F	CHIP R	13.7K	F	1/16W	
R 24R			RK73GB1J1372F	CHIP R	13.7K	F	1/16W	
R 25B			RK73GB1J750J	CHIP R	75	J	1/16W	
R 25C			RK73GB1J750J	CHIP R	75	J	1/16W	
R 25G			RK73GB1J750J	CHIP R	75	J	1/16W	
R 25R			RK73GB1J750J	CHIP R	75	J	1/16W	
R 25S			RK73GB1J750J	CHIP R	75	J	1/16W	
R 25Y			RK73GB1J750J	CHIP R	75	J	1/16W	
R147			RK73GB1J100J	CHIP R	10	J	1/16W	
R161			RK73GB1J000J	CHIP R	0	J	1/16W	
R162-4			RK73GB1J101J	CHIP R	100	J	1/16W	
R165-72			RK73GB1J470J	CHIP R	47	J	1/16W	
R173,4			RK73GB1J101J	CHIP R	100	J	1/16W	
R175			RK73GB1J332J	CHIP R	3.3K	J	1/16W	
R176			RK73FB2A142F	CHIP R	1.4K	F	1/10W	
R177			RK73GB1J362J	CHIP R	3.6K	J	1/16W	
R178			RK73GB1J820J	CHIP R	82	J	1/16W	
R179			RK73GB1J361J	CHIP R	360	J	1/16W	
R180			RK73GB1J2R2J	CHIP R	2.2	J	1/16W	
R181			RK73GB1J100J	CHIP R	10	J	1/16W	
R182			RK73GB1J2R2J	CHIP R	2.2	J	1/16W	
R183-6			RK73GB1J473J	CHIP R	47K	J	1/16W	
R187,8			RK73GB1J2R2J	CHIP R	2.2	J	1/16W	
R189,90			RK73GB1J100J	CHIP R	10	J	1/16W	
R191,2			RK73GB1J473J	CHIP R	47K	J	1/16W	
R193,4			RK73GB1J101J	CHIP R	100	J	1/16W	
R195			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R196			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
VR11	*		R39-0048-08	PR 200R0 OHM	55307870			
D101			1SS355	D-SLP	1SS355			
IC 11			PM0026A	IC(LINE DOUBLER IC)				
IC 12	*		MM1568AJBE	IC-VIDEOPROC	MM1568AJBE			
IC 13			TL431	IC-REGSPECKT	TL431			
IC 14			MC74HC74AD	IC-SPECFUNC	MC74HC74AD			
IC 15			74HC86	IC-LOGIC	74HC86			
Q 10B			DTC114YKA	TR-SSD	DTC114YKA			
Q 10G			DTC114YKA	TR-SSD	DTC114YKA			
Q 10R			DTC114YKA	TR-SSD	DTC114YKA			
Q 11B			KTN2222AS	TR-SLPSWA	KTN2222AS			
Q 11G			KTN2222AS	TR-SLPSWA	KTN2223AS			
Q 11R			KTN2222AS	TR-SLPSWA	KTN2224AS			
Q 12B			KTN2222AS	TR-SLPSWA	KTN2225AS			
Q 12G			KTN2222AS	TR-SLPSWA	KTN2226AS			
Q 12R			KTN2222AS	TR-SLPSWA	KTN2227AS			
Q 13B			KTN2907A	TR-SLPSWA	KTN2907AS			
Q 13G			KTN2907A	TR-SLPSWA	KTN2907AS			
Q 13R			KTN2907A	TR-SLPSWA	KTN2907AS			
Q 14B			DTC114YKA	TR-SSD	DTC114YKA			
Q 14G			DTC114YKA	TR-SSD	DTC114YKA			

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⑩

Ref. No	Address	New Parts	Parts No.	Description			Desti- nation	Re- marks
Q 14R			DTC114YKA	TR-SSD	DTC114YKA			
Q 15B			KTN2907A	TR-SLPSWA	KTN2907AS			
Q 15G			KTN2907A	TR-SLPSWA	KTN2907AS			
Q 15R			KTN2907A	TR-SLPSWA	KTN2907AS			
Q101			DTA114YKA	TR-SSD	DTA114YKA			
Q102			DTC114YKA	TR-SSD	DTC114YKA			
Q103			KTC3875Y	TR-SLPSWA	KTC3875Y			
<b>MICROPROCESSOR</b>								
C501			CK73GB1C104K	CHIP C	0.10UF	K		
C502			CK73GB1H223K	CHIP C	0.022UF	K		
C503			CK73GB1C104K	CHIP C	0.10UF	K		
C504			CK73GB1H102K	CHIP C	1000PF	K		
C505			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C506			CE04LW1A101M	ELECTRO	100UF	10WV		
C507			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C508,9			CK73GB1H102K	CHIP C	1000PF	K		
C551,2			CC73GCH1H221J	CHIP C	220PF	J		
C553,4			CE04LW1C100M	ELECTRO	10UF	16WV		
C555,6			CK73GB1C104K	CHIP C	0.10UF	K		
C557,8			CE04LW1A471M	ELECTRO	470UF	10WV		
C559,60			CE04LW1C100M	ELECTRO	10UF	16WV		
C561,2			CC73GCH1H101J	CHIP C	100PF	J		
C563,4			CE04LW1A471M	ELECTRO	470UF	10WV		
C565			CK73GB1H223K	CHIP C	0.022UF	K		
C568,9			CC73GCH1H101J	CHIP C	100PF	J		
C590			CK73GB1C104K	CHIP C	0.10UF	K		
C591			CE04LW1A471M	ELECTRO	470UF	10WV		
C592			CE04LW1E330M	ELECTRO	33UF	25WV		
C598,9			CK73GB1H102K	CHIP C	1000PF	K		
N506			E41-0799-08	CONN 1.25MM 19	55129010			
N507			E41-0824-08	CONN 1.25MM 13	55124790			
N509			E41-0823-08	CONN 1.25MM 11	55124780			
N510			E35-3017-08	CONN 1.25MM 33	55129060			
N511			E40-8777-08	CONN 2.0MM 5 M	55123320			
NJ51			E63-1289-08	CON PHONO SCKT	55115040			
NJ52			E63-1290-08	CON PHONO SCKT	55181170			
NJ53			E63-1243-08	CON DIN SCKT M	55149520			
L501			L31-0668-08	LF 47U0H +10%	55168840			
Y501			L77-2355-08	CRESONATOR 10M	55126140			
J502			RK73GB1J000J	CHIP R	0	J	1/16W	
J593			RK73GB1J000J	CHIP R	0	J	1/16W	
R501,2			RK73GB1J103J	CHIP R	10K	J	1/16W	
R504,5			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R512,3			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R514-7			RK73GB1J103J	CHIP R	10K	J	1/16W	
R518,9			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R520,1			RK73GB1J473J	CHIP R	47K	J	1/16W	
R522			RK73GB1J104J	CHIP R	100K	J	1/16W	
R523			RK73GB1J103J	CHIP R	10K	J	1/16W	
R526-8			RK73GB1J103J	CHIP R	10K	J	1/16W	
R529			RK73GB1J104J	CHIP R	100K	J	1/16W	
R530			RK73GB1J103J	CHIP R	10K	J	1/16W	
R532			RK73GB1J122J	CHIP R	1.2K	J	1/16W	

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11

Ref. No	Add- ress	New Parts	Parts No.	Description			Desti- nation	Re- marks
R533			RK73GB1J100J	CHIP R	10	J	1/16W	
R534,5			RK73GB1J470J	CHIP R	47	J	1/16W	
R536			RK73GB1J104J	CHIP R	100K	J	1/16W	
R537,8			RK73GB1J103J	CHIP R	10K	J	1/16W	
R539			RK73GB1J331J	CHIP R	330	J	1/16W	
R540			RK73GB1J272J	CHIP R	2.7K	J	1/16W	
R543			RK73GB1J103J	CHIP R	10K	J	1/16W	
R549			RK73GB1J103J	CHIP R	10K	J	1/16W	
R550			RK73GB1J563J	CHIP R	56K	J	1/16W	
R551			RK73GB1J820J	CHIP R	82	J	1/16W	
R552			RK73GB1J820J	CHIP R	82	J	1/16W	
R558-60			RK73GB1J103J	CHIP R	10K	J	1/16W	
R561,2			RK73GB1J750J	CHIP R	75	J	1/16W	
R563			RK73GB1J104J	CHIP R	100K	J	1/16W	
R579,80			RK73GB1J103J	CHIP R	10K	J	1/16W	
R585			RK73GB1J103J	CHIP R	10K	J	1/16W	
R586,687			RK73GB1J221J	CHIP R	220	J	1/16W	
R588,689			RK73GB1J224J	CHIP R	220K	J	1/16W	
D501			1N4148	D-SLP	1N4148			
D502-6			ISS355	D-SLP	ISS355			
D507			1N4148	D-SLP	1N4148			
D551,2		*	1N4148	D-SLP	1N4148			
IC51			CXP82860-366Q	IC-MICROCONT	CXP82860-366Q			
IC52			M24C02WMN6	IC-EEPROM	M24C02WMN6			
IC53			NJM2296	IC-SWITCH	NJM2296			
Q501			KTC3875Y	TR-SLPSWA	KTC3875Y			

## DVD PCB

C611			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C612-5			CE04LW1C101M	ELECTRO	100UF	16WV		
C616,7			CE04LW1C470M	ELECTRO	47UF	16WV		
C618			CE04LW1C101M	ELECTRO	100UF	16WV		
C619			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C620			CE04LW1C101M	ELECTRO	100UF	16WV		
C621			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C622-7			CE04LW1C470M	ELECTRO	47UF	16WV		
C628			CE04LW1C101M	ELECTRO	100UF	16WV		
C629			CE04LW1C470M	ELECTRO	47UF	16WV		
C630			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C631			CE04LW1C100M	ELECTRO	10UF	16WV		
C632,3			CE04LW1C101M	ELECTRO	100UF	16WV		
C634			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C637			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C638			CE04LW1C100M	ELECTRO	10UF	16WV		
C639			CE04LW1C101M	ELECTRO	100UF	16WV		
C640			CK73GB1C104K	CHIP C	0.10UF	K		
C641			CK73GB1H471K	CHIP C	470PF	K		
C642-4			CK73GB1C104K	CHIP C	0.10UF	K		
C645,6			CK73GB1H222K	CHIP C	2200PF	K		
C647,8			CK73GB1H331K	CHIP C	330PF	K		
C649			CC73GCH1H200J	CHIP C	20PF	J		
C650,1			CC73GCH1H240J	CHIP C	24PF	J		
C652-4			CK73GB1C104K	CHIP C	0.10UF	K		
C655,6			CK73GB1H103K	CHIP C	0.010UF	K		
C657,8			CK73GB1C104K	CHIP C	0.10UF	K		

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12

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C659			CK73GB1H103K	CHIP C	0.010UF		K	
C660-3			CC73GCH1H100D	CHIP C	10PF		D	
C664			CK73GB1C104K	CHIP C	0.10UF		K	
C665			CK73GB1H103K	CHIP C	0.010UF		K	
C666-8			CK73GB1C104K	CHIP C	0.10UF		K	
C669,70			CC73GCH1H680J	CHIP C	68PF		J	
C671-80			CK73GB1C104K	CHIP C	0.10UF		K	
C681-2			CC73GCH1H101J	CHIP C	100PF		J	
C683-6			CK73GB1C104K	CHIP C	0.10UF		KK	
C687-9			CK73GB1H561K	CHIP C	560PF		K	
C690			CC73GCH1H100D	CHIP C	10PF		D	
C692-4			CK73GB1C104K	CHIP C	0.10UF		K	
C695,6			CK73GB1H104K	CHIP C	0.10UF		K	
C697			CK73GB1C104K	CHIP C	0.10UF		K	
C698-703			CC73GCH1H100D	CHIP C	10PF		D	
C715			CE04LW1C101M	ELECTRO	100UF		16WV	
C716-9			CC73GCH1H100D	CHIP C	10PF		D	
N601			E40-8771-08	CONN	2.5MM 02		55164790	
N602,3			E35-3010-08	CONN	1.0MM 15		55125910	
N604,5			E41-0800-08	CONN	1.25MM 19		55124760	
L601			L32-1047-08	FBEAD SURFACE			55126670	
L602			L32-1049-08	LF-SMD 22U0H +			14039360	
L603-5			L32-1046-08	LF-SMD 2U2H + 1			14041740	
L606,7			L32-1047-08	FBEAD SURFACE			55126670	
L608			L32-1047-08	FBEAD SURFACE			55126670	
L609			L32-1046-08	LF-SMD 2U2H + 1			14041740	
L610			L32-1049-08	LF-SMD 22U0H +			14039360	
L611			L32-1047-08	FBEAD SURFACE			55126670	
L616			L32-1049-08	LF-SMD 22U0H +			14039360	
Y601			L77-2326-08	FILQZ 27M0 HZ			55128980	
R601-11			R90-1333-08	LADDER R	47			
R615-8			RK73GB1J470J	CHIP R	47	J	1/16W	
R619-24			RK73GB1J331J	CHIP R	330	J	1/16W	
R625-32			RK73GB1J470J	CHIP R	47	J	1/16W	
R633			RK73GB1J430J	CHIP R	43	J	1/16W	
R634-9			RK73GB1J473J	CHIP R	47K	J	1/16W	
R640-2			RK73GB1J103J	CHIP R	10K	J	1/16W	
R643,4			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R645			RK73GB1J103J	CHIP R	10K	J	1/16W	
R646			RK73GB1J470J	CHIP R	47	J	1/16W	
R647			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R648			RK73GB1J103J	CHIP R	10K	J	1/16W	
R649,50			RK73GB1J470J	CHIP R	47	J	1/16W	
R651			RK73GB1J100J	CHIP R	10	J	1/16W	
R652,3			RK73GB1J470J	CHIP R	47	J	1/16W	
R654,5			RK73GB1J182J	CHIP R	1.8K	J	1/16W	
R656,7			RK73GB1J101J	CHIP R	100	J	1/16W	
R658,9			RK73GB1J103J	CHIP R	10K	J	1/16W	
R660,1			RK73GB1J470J	CHIP R	47	J	1/16W	
R662			RK73GB1J103J	CHIP R	10K	J	1/16W	
R663,4			RK73GB1J470J	CHIP R	47	J	1/16W	
R665,6			RK73GB1J473J	CHIP R	47K	J	1/16W	
R667,8			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R669			RK73GB1J470J	CHIP R	47	J	1/16W	

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42

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13

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R670,1			RK73GB1J392J	CHIP R	3.9K	J	1/16W	
R672			RK73GB1J470J	CHIP R	47	J	1/16W	
R673,4			RK73GB1J912J	CHIP R	9.1K	J	1/16W	
R675-8			RK73GB1J470J	CHIP R	47	J	1/16W	
R679			RK73GB1J824J	CHIP R	820K	J	1/16W	
R680-2			RK73GB1J470J	CHIP R	47	J	1/16W	
R683,4			RK73GB1J103J	CHIP R	10K	J	1/16W	
R685			RK73GB1J470J	CHIP R	47	J	1/16W	
R686			RK73GB1J101J	CHIP R	100	J	1/16W	
R687			RK73GB1J560J	CHIP R	56	J	1/16W	
R688			RK73GB1J105J	CHIP R	1.0M	J	1/16W	
R695-8			R90-1333-08	LADDER R	47			
R699			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R700			RK73GB1J103J	CHIP R	10K	J	1/16W	
R741			RK73GB1J683J	CHIP R	68K	J	1/16W	
R742			RK73GB1J473J	CHIP R	47K	J	1/16W	
R743,4			RK73FB2A2002F	CHIP R	20.0K	F	1/10W	
R746,7			RK73GB1J103J	CHIP R	10K	J	1/16W	
R748			RK73GB1J100J	CHIP R	10	J	1/16W	
R749			RK73GB1J103J	CHIP R	10K	J	1/16W	
R750,1			RK73GB1J750J	CHIP R	75	J	1/16W	
R752			RK73GB1J103J	CHIP R	10K	J	1/16W	
R753			RK73GB1J470J	CHIP R	47	J	1/16W	
R754			RK73GB1J470J	CHIP R	47	J	1/16W	
R755,6			RK73GB1J104J	CHIP R	100K	J	1/16W	
R757			RK73GB1J470J	CHIP R	47	J	1/16W	
R758,9			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R760-3			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R764			RK73GB1J473J	CHIP R	47K	J	1/16W	
R765			RK73GB1J000J	CHIP R	0	J	1/16W	
R766			RK73GB1J471J	CHIP R	470	J	1/16W	
R767-9			RK73GB1J470J	CHIP R	47	J	1/16W	
R770			RK73GB1J473J	CHIP R	47K	J	1/16W	
R771,2			RK73GB1J471J	CHIP R	470	J	1/16W	
R773-5			RK73GB1J103J	CHIP R	10K	J	1/16W	
R776,7			RK73GB1J220J	CHIP R	22	J	1/16W	
R778			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R779			RK73GB1J182J	CHIP R	1.8K	J	1/16W	
R780-2			RK73GB1J470J	CHIP R	47	J	1/16W	
R783			RK73GB1J330J	CHIP R	33	J	1/16W	
R784			RK73GB1J330J	CHIP R	33	J	1/16W	
R785			RK73GB1J473J	CHIP R	47K	J	1/16W	
R795			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R797			RK73GB1J430J	CHIP R	43	J	1/16W	
D601			1N5232B	D-ZENER	1N5232B			
D602			RB441Q-40	D-SLP	RB441Q-40			
D603,4			1N4148	D-SLP	1N4148			
D605			UDZ2.2B	D-ZENER	UDZ 2.2 B			
D606			1SS355	D-SLP	1SS355			
IC 61			STI5519	IC-VIDEOPROC	STI5519			
IC 62			M24C02WMN6	IC-EEPROM	M24C02WMN6			
IC 63			HY57V641620HGT	IC-DRAM	100M0 HY57V641620HGT-H			
IC 64			WM8728	IC-CONV	WM8728			
IC 65			BA4560F	IC-OPERAMP	BA4560F			

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14

Ref. No	Add- ress	New Parts	Parts No.	Description			Desti- nation	Re- marks
IC 66			M29W800AT901N1	IC-MEMFLASH	M29W800AT90N1			
IC 66			SST39VF800A904	IC-MEMFLASH	SST39VF800A-90-			
IC 66			TMS29LF80	IC-MEMFLASH	TMS29			
IC 67			M74HCU04M1R	IC-LOGIC	M74HCU04M1R			
IC 69			FAN8082	IC-MOTORCIR	FAN8082			
Q601,2			KTC3875Y	TR-SLPSWA	KTC3875Y			
Q603,4			DTC323TK	TR-SSD	DTC323TK			
Q605			KRA107S	TR-SSD	KRA107S			
Q607			KTC3875Y	TR-SLPSWA	KTC3875Y			
Q608			KTA1504Y	TR-SLPSWA	KTA1504Y			
Q609			DTC114YKA	TR-SSD	DTC114YKA			
<b>DSP PCB</b>								
C301			CK73GB1H102K	CHIP C	1000PF	K		
C302			CK73GB1H103K	CHIP C	0.010UF	K		
C303-5			CK73GB1H102K	CHIP C	1000PF	K		
C306			CC73GCH1H221J	CHIP C	220PF	J		
C307			CK73GB1H103K	CHIP C	0.010UF	K		
C308			CK73GB1C224K	CHIP C	0.22UF	K		
C309			CK73GB1H103K	CHIP C	0.010UF	K		
C310			CK73GB1H122K	CHIP C	1200PF	K		
C312-18			CK73GB1H102K	CHIP C	1000PF	K		
C319			CK73GB1H473K	CHIP C	0.047UF	K		
C320,21			CK73GB1H102K	CHIP C	1000PF	K		
C322			CC73GCH1H101J	CHIP C	100PF	J		
C323			CK73GB1H222K	CHIP C	2200PF	K		
C324			CK73GB1C104K	CHIP C	0.10UF	K		
C325,6			CC73GCH1H101J	CHIP C	100PF	J		
C327			CK73GB1H222K	CHIP C	2200PF	K		
C329			CK73GB1C104K	CHIP C	0.10UF	K		
C330			CC73GCH1H221J	CHIP C	220PF	J		
C331-7			CK73GB1H102K	CHIP C	1000PF	K		
C338			CK73GB1H122K	CHIP C	1200PF	K		
C339			CK73GB1H153K	CHIP C	0.015UF	K		
C340,1			CK73GB1H122K	CHIP C	1200PF	K		
C342			CK73GB1C104K	CHIP C	0.10UF	K		
C343			CK73GB1H122K	CHIP C	1200PF	K		
C344-6			CK73GB1C104K	CHIP C	0.10UF	K		
C347			CC73GCH1H221J	CHIP C	220PF	J		
C348			CK73GB1H332K	CHIP C	3300PF	K		
C349-51			CC73GCH1H221J	CHIP C	220PF	J		
C352			CC73GCH1H101J	CHIP C	100PF	J		
C353-5			CK73GB1H102K	CHIP C	1000PF	K		
C356			CK73GB1C104K	CHIP C	0.10UF	K		
C357			CK73GB1H473K	CHIP C	0.047UF	K		
C358			CK73GB1C104K	CHIP C	0.10UF	K		
C359			CK73GB1H473K	CHIP C	0.047UF	K		
C360			CC73GCH1H101J	CHIP C	100PF	J		
C362-7			CK73GB1C104K	CHIP C	0.10UF	K		
C368			CK73GB1H333K	CHIP C	0.033UF	K		
C369-78			CK73GB1C104K	CHIP C	0.10UF	K		
C379			CC73GCH1H470J	CHIP C	47PF	J		
C380			CC73GCH1H221J	CHIP C	220PF	J		
C381			CC73GCH1H470J	CHIP C	47PF	J		
C382-6			CK73GB1C104K	CHIP C	0.10UF	K		

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15

Ref. No	Add- ress	New Parts	Parts No.	Description		Desti- nation	Re- marks
C387			CC73GCH1H470J	CHIP C	47PF	J	
C388-90			CE04LW1C100M	ELECTRO	10UF	16WV	
C391			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C392			CE04LW1C470M	ELECTRO	47UF	16WV	
C393			CE04LW1A101M	ELECTRO	100UF	10WV	
C394,5			CE04LW1C100M	ELECTRO	10UF	16WV	
C396			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C397			CE04LW1C470M	ELECTRO	47UF	16WV	
C398			CE04LW1C100M	ELECTRO	10UF	16WV	
C399			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C400,1			CE04LW1C100M	ELECTRO	10UF	16WV	
C402			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C403,4			CE04LW1C100M	ELECTRO	10UF	16WV	
C405			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	
C406			CE04LW1A101M	ELECTRO	100UF	10WV	
C407-13			CE04LW1C100M	ELECTRO	10UF	16WV	
C414,5			CE04LW1C221M	ELECTRO	220UF	16WV	
C417			CE04LW1C470M	ELECTRO	47UF	16WV	
C418-20			CE04WQ01J02M	ELECTRO	1000UF	6.3WV	
C427,8			CC73GCH1H220J	CHIP C	22PF	J	
NJ34			E63-1244-08	CON PHONO SCKT	55164750		
L301-3			L92-0556-08	FBEAD SURFACE	55126690		
L314			L92-0557-08	LF-SMD 33U0H +	55185090		
L317			L92-0557-08	LF-SMD 33U0H +	55185090		
L318-25			L92-0556-08	FBEAD SURFACE	55126690		
L326-8			L32-1047-08	FBEAD SURFACE	55126670		
Y301	*		W02-2962-08	VCXO 12M288 HZ	55348350		
L304			RK73FB2A000J	CHIP R	0	J 1/10W	
L306			RK73FB2A000J	CHIP R	0	J 1/10W	
L308-11			RK73FB2A000J	CHIP R	0	J 1/10W	
L312			RK73GB1J131J	CHIP R	130	J 1/16W	
L313			RK73FB2A000J	CHIP R	0	J 1/10W	
R301			RK73GB1J104J	CHIP R	100K	J 1/16W	
R302			RK73GB1J750J	CHIP R	75	J 1/16W	
R303			RK73GB1J682J	CHIP R	6.8K	J 1/16W	
R304			RK73GB1J471J	CHIP R	470	J 1/16W	
R305			RK73GB1J561J	CHIP R	560	J 1/16W	
R306			RK73GB1J103J	CHIP R	10K	J 1/16W	
R307			RK73GB1J472J	CHIP R	4.7K	J 1/16W	
R308			RK73GB1J471J	CHIP R	470	J 1/16W	
R309			RK73GB1J272J	CHIP R	2.7K	J 1/16W	
R310			RK73GB1J821J	CHIP R	820	J 1/16W	
R311			RK73GB1J123J	CHIP R	12K	J 1/16W	
R312			RK73GB1J472J	CHIP R	4.7K	J 1/16W	
R313			RK73GB1J103J	CHIP R	10K	J 1/16W	
R314			RK73GB1J333J	CHIP R	33K	J 1/16W	
R315,6			RK73GB1J472J	CHIP R	4.7K	J 1/16W	
R317			RK73GB1J104J	CHIP R	100K	J 1/16W	
R318			RK73GB1J682J	CHIP R	6.8K	J 1/16W	
R319,20			RK73GB1J471J	CHIP R	470	J 1/16W	
R321			RK73GB1J272J	CHIP R	2.7K	J 1/16W	
R322			RK73GB1J821J	CHIP R	820	J 1/16W	
R323			RK73GB1J104J	CHIP R	100K	J 1/16W	

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16

Ref. No	Add- ress	New Parts	Parts No.	Description		Desti- nation	Re- marks
R324			RK73GB1J562J	CHIP R	5.6K	J 1/16W	
R325			RK73GB1J471J	CHIP R	470	J 1/16W	
R326			RK73GB1J472J	CHIP R	4.7K	J 1/16W	
R327			RK73GB1J471J	CHIP R	470	J 1/16W	
R328			RK73GB1J272J	CHIP R	2.7K	J 1/16W	
R329			RK73GB1J821J	CHIP R	820	J 1/16W	
R330			RK73GB1J104J	CHIP R	100K	J 1/16W	
R331			RK73GB1J471J	CHIP R	470	J 1/16W	
R332			RK73GB1J272J	CHIP R	2.7K	J 1/16W	
R333			RK73GB1J473J	CHIP R	47K	J 1/16W	
R334,5			RK73GB1J103J	CHIP R	10K	J 1/16W	
R337,8			RK73GB1J151J	CHIP R	150	J 1/16W	
R339			RK73GB1J203J	CHIP R	20K	J 1/16W	
R340			RK73GB1J473J	CHIP R	47K	J 1/16W	
R341-3			RK73GB1J103J	CHIP R	10K	J 1/16W	
R344,5			RK73GB1J151J	CHIP R	150	J 1/16W	
R346,7			RK73GB1J103J	CHIP R	10K	J 1/16W	
R348			RK73GB1J100J	CHIP R	10	J 1/16W	
R349			RK73GB1J222J	CHIP R	2.2K	J 1/16W	
R350			RK73GB1J131J	CHIP R	130	J 1/16W	
R351			RK73GB1J104J	CHIP R	100K	J 1/16W	
R352			RK73GB1J682J	CHIP R	6.8K	J 1/16W	
R353,4			RK73GB1J471J	CHIP R	470	J 1/16W	
R355			RK73GB1J123J	CHIP R	12K	J 1/16W	
R356			RK73GB1J473J	CHIP R	47K	J 1/16W	
R357			RK73GB1J272J	CHIP R	2.7K	J 1/16W	
R358			RK73GB1J821J	CHIP R	820	J 1/16W	
R359			RK73GB1J104J	CHIP R	100K	J 1/16W	
R360			RK73GB1J682J	CHIP R	6.8K	J 1/16W	
R361			RK73GB1J101J	CHIP R	100	J 1/16W	
R362,3			RK73GB1J471J	CHIP R	470	J 1/16W	
R364,5			RK73GB1J472J	CHIP R	4.7K	J 1/16W	
R366			RK73GB1J272J	CHIP R	2.7K	J 1/16W	
R367-9			RK73GB1J103J	CHIP R	10K	J 1/16W	
R370			RK73GB1J821J	CHIP R	820	J 1/16W	
R371-5			RK73GB1J472J	CHIP R	4.7K	J 1/16W	
R376-9			RK73GB1J123J	CHIP R	12K	J 1/16W	
R381			RK73GB1J123J	CHIP R	12K	J 1/16W	
R382			RK73GB1J203J	CHIP R	20K	J 1/16W	
R383			RK73GB1J103J	CHIP R	10K	J 1/16W	
R384			RK73GB1J682J	CHIP R	6.8K	J 1/16W	
R385			RK73GB1J471J	CHIP R	470	J 1/16W	
R386			RK73GB1J821J	CHIP R	820	J 1/16W	
R387			RK73GB1J102J	CHIP R	1.0K	J 1/16W	
R394			RK73GB1J151J	CHIP R	150	J 1/16W	
R395-401			RK73GB1J220J	CHIP R	22	J 1/16W	
R402,3			RK73GB1J3R3J	CHIP R	3.3	J 1/16W	
R404			RK73GB1J911J	CHIP R	910	J 1/16W	
R405,6			RK73GB1J101J	CHIP R	100	J 1/16W	
R407			RK73GB1J242J	CHIP R	2.4K	J 1/16W	
R408-16			RK73GB1J100J	CHIP R	10	J 1/16W	
R417-19			RK73GB1J221J	CHIP R	220	J 1/16W	
R425,6			RK73GB1J620J	CHIP R	62	J 1/16W	
IC31			CS4228QFP44	IC COMM	CS4228	QFP44	

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Ref. No	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
IC32			AT27LV010A90JC	IC-EPROM	AT27LV010A-90JC	
IC33			CS493263-CL	IC-LOWFREQ	CS493263-CL	
IC34-8			KIA4558F	IC-OPERAMP	KIA4558F	
IC39			CS8415A-CS	IC-LOWFREQ	CS8415A-CS	
IC40,1			74VHC244MX	IC-LOGIC	74VHC244MX	
IC42,3			74VHC574MX	IC-LOGIC F/F	74VHC574MX	
Q301			KTA1504Y	TR-SLPSWA	KTA1504Y	
NJ35			W02-2911-08	D-LEM TOTX178B	55125440	

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# DVR-605

## SPECIFICATIONS

### Main unit

#### [ Amplifier section ]

Effective output power during STEREO operation	
1 kHz, 10 % T.H.D. at 6 Ω	40 W + 40 W
Effective output power during SURROUND operation	
Front (1 kHz, 10 % T.H.D. at 6 Ω)	40 W + 40 W
Center (1 kHz, 10 % T.H.D. at 6 Ω)	40 W
Subwoofer (100 Hz, 10 % T.H.D. at 6 Ω)	80 W
Surround (1 kHz, 10 % T.H.D. at 6 Ω)	40 W + 40 W
Input sensitivity / impedance	
VCR / SAT / CABLE / FRONT	600 mV / 68 kΩ
Output level / impedance	
VCR	600 mV / 470 Ω

#### [ Tuner section ]

FM tuner section	
Tuning frequency range	87.5 MHz ~ 108 MHz
AM Tuner section	
Tuning frequency range (for U.K., Europe and Australia)	531 kHz ~ 1,602 kHz
Tuning frequency range (for U.S.A. and Canada)	530 kHz ~ 1,700 kHz
Tuning frequency range (for other countries)	531 kHz ~ 1,602 kHz / 530 kHz ~ 1,610 kHz

#### [ DVD/CD/VIDEO CD player section ]

Laser	Semiconductor laser
Wow & Flutter	Less than unmeasurable
Video output format (for U.S.A. and Canada)	NTSC
Video output format (for other countries)	NTSC/PAL
VIDEO OUTPUT	
Composite video output level/impedance	1 Vp-p (75 Ω)
S-video output	
Y output level/impedance	1 Vp-p (75 Ω)
C output level/impedance	
NTSC	0.286 Vp-p (75 Ω)
PAL	0.3 Vp-p (75 Ω)
Component video output (only for some areas)	
Y output level/impedance	1 Vp-p (75 Ω)
C/b output level/impedance	0.7 Vp-p (75 Ω)
C/r output level/impedance	0.7 Vp-p (75 Ω)
Compression format	MPEG1/MPEG2

#### [ DIGITAL AUDIO section ]

Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Input level/impedance/wave length	
Optical	-15 dBm ~ 21 dBm (660 nm ±30 nm)
Coaxial	0.6 Vp-p (75 Ω)
Digital output	-15 dBm ~ 21 dBm (Wave length 660 nm)



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be possible at very low temperatures (0°C or less).

#### Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

#### [ General ]

Power consumption	130 W (for U.S.A. and Canada) 130 W (for U.K.) 130 W (for other countries)
Dimensions	W: 440 mm (17-5/16") H: 93 mm (3-11/16") D: 410 mm (16-1/8")
Weight (net)	8.5 kg

#### KS-306DV Speakers (Front/Surround)

Enclosure	Bass-Reflex type (Front Speaker Magnetically shielded)
Speaker configuration	
Woofer	80 mm (3"), cone type
Tweeter	25 mm (1"), balanced dome type
Impedance	6 Ω
Maximum input power	40 W
Dimensions	W: 111 mm (4-3/8") H: 156 mm (6-1/8") D: 129 mm (5-1/16")
Weight (net)	
Front speakers	0.9 kg (2.0 lb) (1 piece)
Surround speaker	0.8 kg (1.8 lb) (1 piece)

#### KS-306DV Speakers (Center)

Enclosure	Acoustic Air Suspension type (Magnetically shielded)
Speaker configuration	
Woofer	80 mm (3"), cone type
Tweeter	25 mm (1"), balanced dome type
Impedance	6 Ω
Maximum input power	40 W
Dimensions	W: 252 mm (9-15/16") H: 111 mm (4-3/8") D: 129 mm (5-1/16")
Weight (net)	1.1 kg (2.4lb)

#### SW-06DV Speaker (Subwoofer)

Enclosure	Bass-reflex type (Magnetically shielded)
Speaker configuration	
Woofer	160 mm (6-1/2"), cone type
Impedance	6 Ω
Maximum input power	80 W
Dimensions	W: 120 mm (8-11/16") H: 350 mm (13-3/4") D: 355 mm (14")
Weight (net)	5.9 kg

## KENWOOD CORPORATION

2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

## KENWOOD SERVICE CORPORATION

P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.